



SAM-150031  
G-Portal User's Manual

# G-Portal

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## User's manual

Version 2.2

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Japan Aerospace Exploration Agency

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# 1. What is the G-Portal

Globe Portal System (G-Portal ) is a online dissemination service of valuable products acquired from sensors on Earth Observation Satellites of Japan Aerospace Exploration Agency (hereafter, JAXA).

All you can use the service to cross-search products from JAXA's many earth observation satellites and sensors, and registered users can acquire products.

## 1.1. Data Policy

Precautions when using G-Portal data are as follows.

- Data is provided via the internet/an online environment.
- Costs for providing the data are free of charge provided that no additional costs are incurred by JAXA.
- Anybody is free to use the system, including those interested in the global environment, or those interested in making a positive contribution to society through the use of earth observation data.

Privacy policy when you register a user is handled in the following manner.

Your registered personal information is used to identify how the service is being used, and to implement improvements to the service into the future. This information may also be used to notify or contact users when JAXA conducts survey (questionnaires) regarding improvements to system functionality.

Please refer to the Term of Use for further information of usage. And also please refer to the JAXA site policy ([http://www.jaxa.jp/policy\\_j.html](http://www.jaxa.jp/policy_j.html)) for further details on the data policy and handling of privacy policy.

## 1.2. G-Portal user types

User types for G-Portal is outlined in Table 1.2-1. You are recommended to complete user registration first in order to acquire products without restrictions (See “2. Register User”).

**Table 1.2-1 User Types**

User Type	Definition	Services Available
Guest User	Users who have not completed user registration	Search and browse data online. Note that guest users are unable to order or acquire products.
Registered User	Users who have completed user registration	Search, browse, order and acquire standard products online. Acquire standard products and near real-time products directly from the SFTP server without having to submit an order. Each type of product has a quota restriction per order.
Specified User	Register users, collaborator specially permitted by JAXA	Data browsing is available online. Products are available to order and download for registered users, with additional products being available to those who are JAXA-approved.

## 1.3. User types and service content

The service content of G-Portal is outlined in Table 1.3-1 below. The type of service content differs depending on user types.

**Table 1.3-1 Product Services for Each Type of User**

Provided Service	Chapter, Section	Applicable Users		
		Guest Users	Registered Users	Specified Users
User Authentication	2.2	-	○	○
User Registration	2.1	○	-	-
Change user information	5.2	-	○	○
Delete user information	5.3	-	○	○
Change password	5.4	-	○	○
Reissue password	2.3.2	-	○	○
Public key registration	3.2	-	○	○
Browse notifications (system maintenance information, release information, Web page update information)	6.5	○	○	○
Search and browse products	4.1	○	○	○(*1)
Search and order products	4.3.1	-	○	○(*1)
Download products (WEB)	4.3.2	-	○	○(*1)
Download products(SFTP)	3	-	○	○(*1)
Order history and order status	4.3.3	-	○	○
Browse and acquire spacecraft sensor operating information (such as quality information, data missing information, TLE information, orbit information)	6.2.1	○	○	○
Browse and acquire product documentation (such as user's manual, format definitions)	6.3	○	○	○
Browse and acquire tools related to products	6.4	○	○	○
Use SFTP to download products	3.4	-	○	○
Send inquiries to the support desk	7	○	○	○

\*1 In addition to the products that all registered users can download, there are other products that are available for search, order, download through JAXA approval.

## 2. Register User

### 2.1. User registration

You must complete user agency registration to order and download products using this service. The following outlines the procedures required for user registration.

1. Click "User registration"

2. Click "Registration agree"

3. Enter the information.

4. Click "Next".

1) Click "User Registration" from the menu.

2) To register a user, you must agree to the terms of use. Read through the terms and click the "Registration agree" button. The page will move to the "User Registration windowwindow".

User registration is not possible if you do not agree to these terms, and use the service as a guest user.

3) Enter all required information for the user you want to register (user account, name, email address, organization/department, country name, language used for email, purpose of use, and Notification Email for ready).

4) Click the "Next" button to move to the window to check the information you have entered. Click "Cancel" button to cancel the registration process to return to the Welcome page.

5. Confirm the entry.

Confirmation of user registration  
Confirm the contents of entered information and then click [Register].  
If not correct, click [Back].

User Account:	Ty Tanaka
Name:	Kyoko Tanaka
Email:	g0002p@naga.digimix.com
Organization:	FUTURES Limited
Department:	TC solution
Country:	United-States
Language:	English
Password:	Abcd1234
(Notification e-mail has been sent)	(Bulk mail is received, has been selected auto reply)

[Back](#) [Register](#)

6. Click "Register".

User registration is temporary completed  
The user registration confirmation e-mail is sent to the registered address.

Follow the instructions of the user registration confirmation e-mail to complete registration.  
If you do not complete registration by the due date or the user registration confirmation e-mail is not in the registered address, the registration becomes invalid. In such case, you will need to register again.  
If you do not receive the user registration confirmation e-mail after one or more days, please contact us at [g-portal-support@jaxa.jp](mailto:g-portal-support@jaxa.jp)

[Done](#)

7. tentative registration has done.

本登録

ユーザー登録が完了しました。  
以下のリンクをクリックすると、G-Portalのホーム画面に遷移します。

[ホーム](#)

Copyright © 2014 Aerospace Exploration Agency. [お問い合わせ](#) [お問い合わせ先](#) [お問い合わせ先](#) [お問い合わせ先](#) [お問い合わせ先](#)

8. Registration has completed.

5) The user information you have entered will be displayed, so check that the details are correct. To make corrections, click the "Back" button to return to the "User Registration window.

6) Click the "Register" button to temporarily register your user.

7) The temporary registration is done. A "User Registration Confirmation Email" will be sent to the email address you specified.  
User registration is not yet complete.

8) Access the URL included in the "User Registration Confirmation Email". The final Registration window will be displayed.  
Your user account is sent to the email address you registered ("User Registration Complete Email").  
User registration is complete and you can now login to the G-Portal.

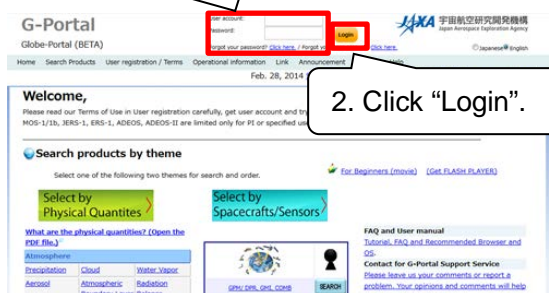


## 2.2. Login to the system

You can login to the system using a user account that has been registered in advance (see “2.1 User registration” for the registration method) to order and download products using G-Portal. See “1.2 G-Portal user types” for user type and usage restrictions.

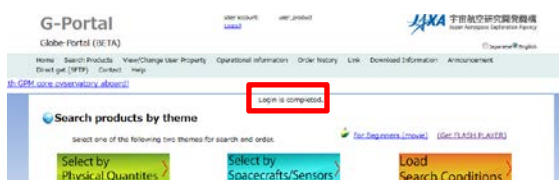
1. Enter the user account and password.

1) Enter the user account and password at the top of the window.



2. Click “Login”.

2) Click the “Login” button.



3) A “Login complete” message will be displayed after you have successfully logged into the system

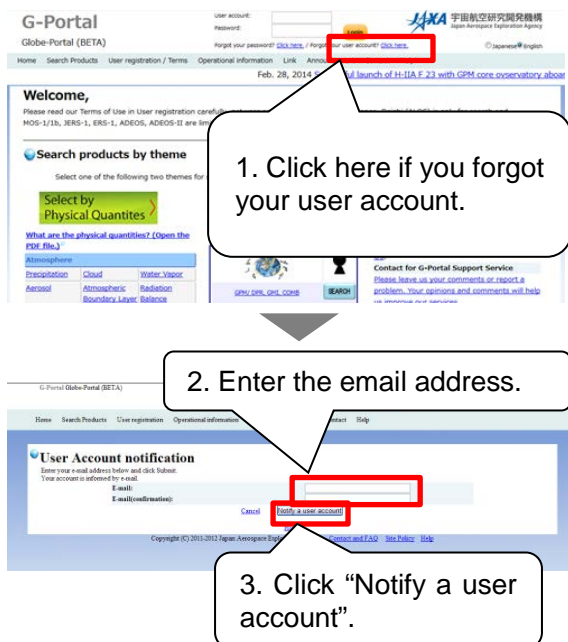
The following may be wrong if you cannot login.

- Incorrect user account or password
- User account has become locked

## 2.3. Troubleshoot for login

### 2.3.1. If you have forgotten your user account

The system can resend User Account Notification Email if you have forgotten your user account.



1) Click the “Forgot your user account? Click here” link at the top of the Home (Top) page. The User Account Notification window will be displayed.

2) Enter the email address you specified when registering your user account.

3) Click the “Notify a user account” button to resend a “User Account Notification Email”. Your user account will be resent via email.

### 2.3.2. If you have forgotten your password

The system can reissue a password if you have forgotten your password.



1) Click the “Forgot your password? Click here” link at the top of the Home (Top) page. The Password Reissue Form will be displayed.

2) Enter your user account and the email address registered.

3) Click the “To reissue your password” button to send a “Reissue Password Email”. Your new password will be sent via email.

### **2.3.3. If your account has become locked**

Your user account will be locked if you have entered an incorrect password five times. You will not be able to login to the system if your account is locked.

When your user account is locked because you entered an incorrect password, the system will unlock accounts automatically once per day. Try login the system next day, or contact the support desk if you need to urgently access the system.

## 3. Direct Download Products

You can download products directly (this download method is hereafter referred to as “direct download”) using SFTP, and without having to use a Web browser. Direct download employs public authentication. You are advised to first generate a public key, and then register that public key to G-Portal. See “3.1 Generate a public key” to generate a public key, “3.2 Register the public key” for the registration method, and “3.3” for directories that can be accessed with SFTP.

Policies of your organization may prohibit access to external sites using SFTP. If this happens, you are advised to contact the network administrator of your organization. For safety reasons, G-Portal assigns SFTP TCP port 2051, instead of port 22 that is normally used.

### 3.1. Generate a public key

#### (1) UNIX (including Mac OSX)

- (1) Open a terminal window and run the following command (if the command cannot be run, check that ssh is installed).

```
$ ssh-keygen
```

- (2) The following message will be displayed requesting you to enter the directory where public and private keys will be saved.

```
Enter file in which to save the key (/Users/Username/.ssh/id_rsa):
```

Enter the directory name and save file name to specify the name of the save directory and save file name.

Pressing [enter] without entering a name will configure the default directory /Users/Username/.ssh as the location to save id\_rsa (private key) and id\_rsa.pub (public key).

- (3) The following message will be displayed requesting you to enter the passphrase to decode the private key.

```
Enter passphrase (empty for no passphrase):
```

Enter a password if you want to configure SFTP to request a password when SFTP connects to a site.

You have successfully generated public and private keys in the specified directory.

## (2) Windows

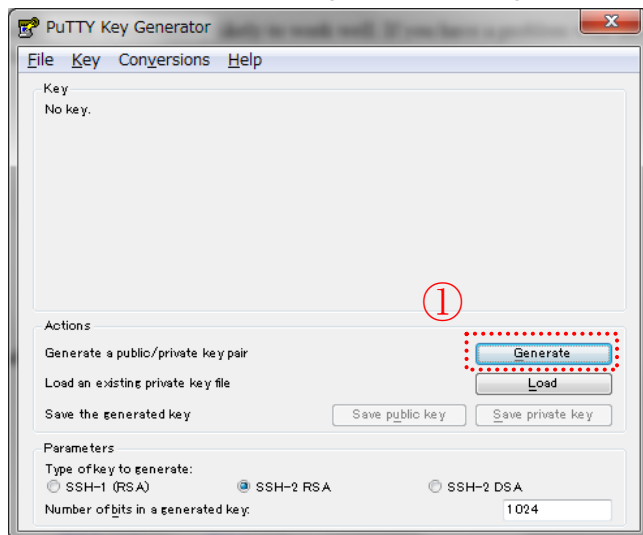
The following outline is an example using the “PuTTY-gen” software application to generate public and private keys.

Download PuTTY-gen from the following site and install it on your computer.

PuTTY-gen download site:

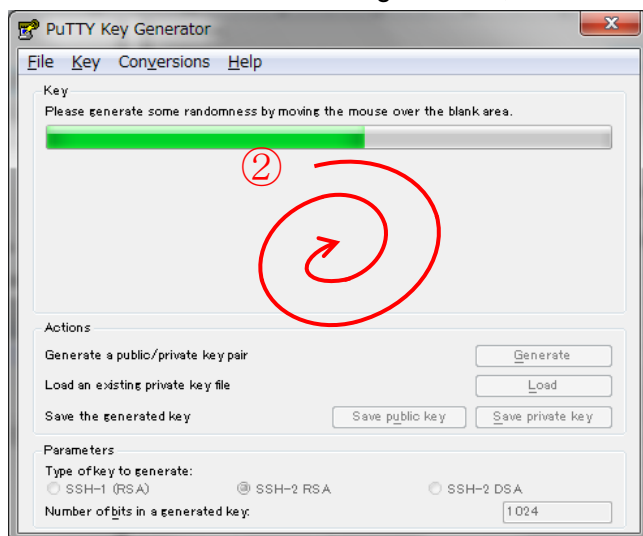
<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

- (1) Start PuTTY-gen.
- (2) Click [Generate] (Image 3.1-1(1)) to generate public and private keys.



**Image 3.1-1**

- (3) Move the cursor around the empty space in the middle of the window (Image 3.1-2(2)).  
A random number will be generated, followed by the relevant key.



**Image 3.1-2**

- (4) (Optional) Enter the password to decode the private key (Image 3.1-3(3)).
- (5) Click [Save public key] to save the public key on your computer (Image 3.1-3(4)).
- (6) Click [Save private key] to save the private key on your computer (Image 3.1-3(5)). Register this public key with G-Portal in the following section. Always generate the public and private keys as a pair.
- (7) Click [File] → [Exit] to close PuTTY-gen.

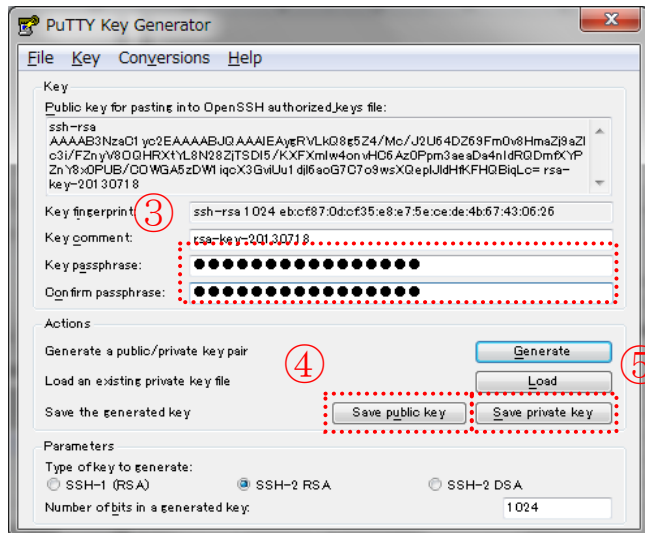


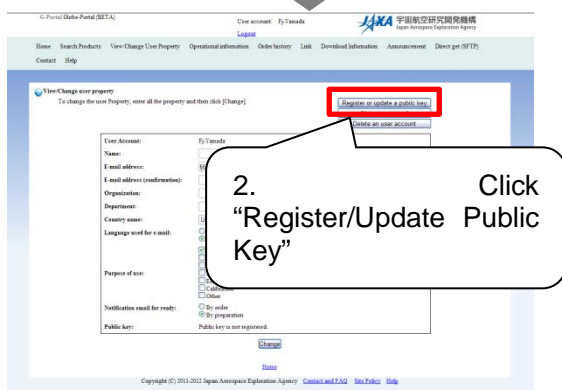
Image 3.1-3

## 3.2. Register the public key

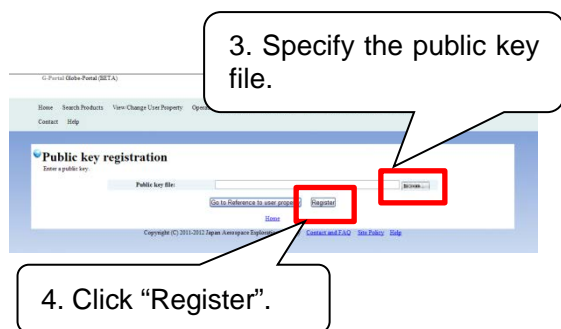
To use SFTP for direct download, the key generated in 3.1.1 must be registered to G-Portal (take care not to register the private key, as it will be used when accessing the SFTP server later).



- 1) After login G-Portal with your user account, click “View/Change User Property”. The View/Change User Property window will be displayed.



- 2) Click “Register/Update Public Key” link. The Register/Update Public Key window will be displayed.



3) Click the "Browse" button to specify the public key file. If a public key has already been registered, it will be overwritten to the specified public key.

4) Click "Register" button. The Registration Complete window will be displayed and the new public key will be registered with the system. If you do not want to register/update the public key, click the "Browse/Change User Information" button. The window will return to the Browse/Change User Information window.

5) Registering a public key to the system will display the Public Key Registration Complete dialog box.

### 3.3. Products using SFTP

There are three types of products can be provided via SFTP: Both “Standard Products” and “Near real-time Products” can be downloaded by registered users (all users who have registered a public key). And “Ordered made products” can only be downloaded by PI, Col and specified agencies that have a collaborative agreement with JAXA.

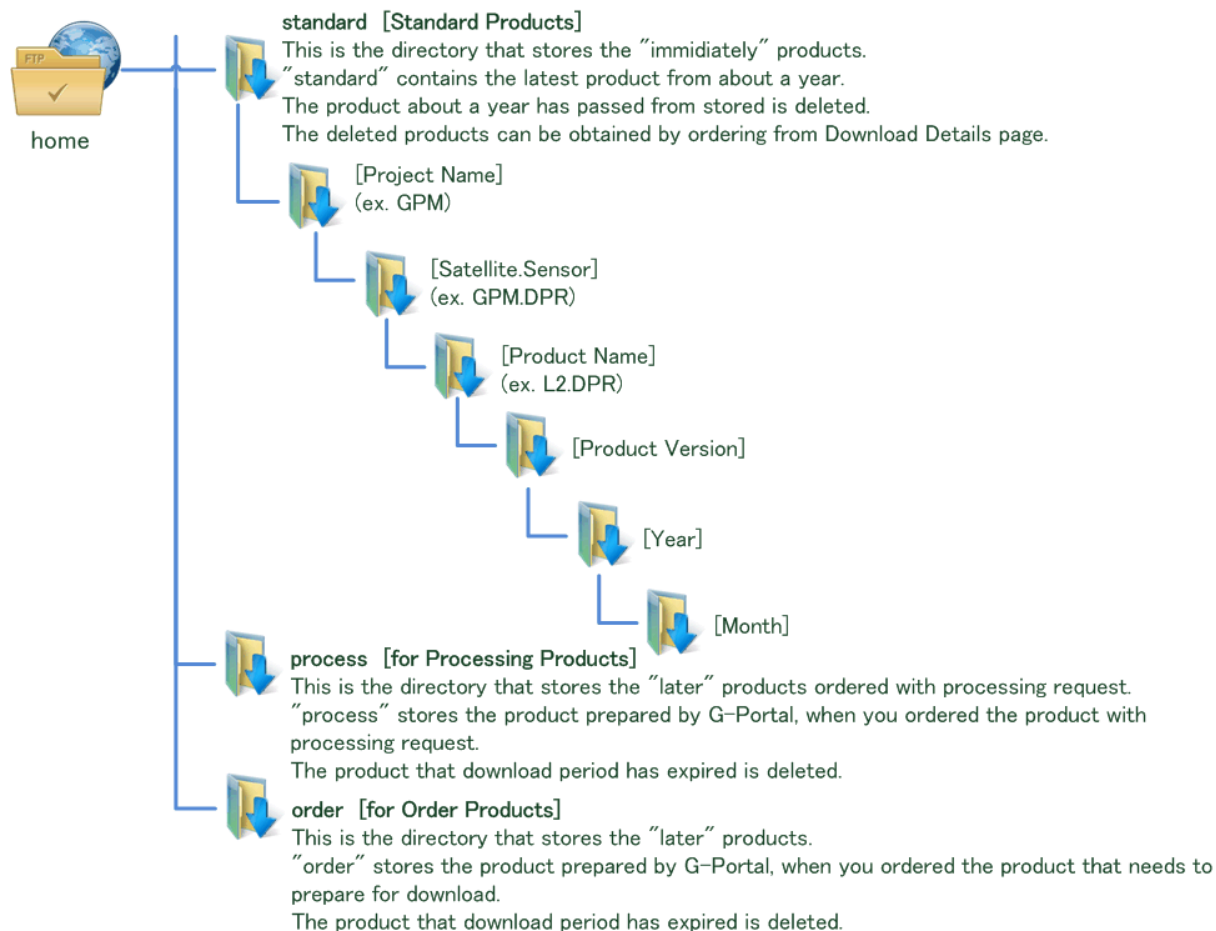
Product		Product Description	Stored Directory Name
Standard Product	Products that can be downloaded immediately	The latest products that can be provided by G-Portal. These products can be downloaded immediately after an order is submitted online. Products will be deleted from G-Portal after a specified period for each product category.	/standard
	Products that can be downloaded later	It needs some preparation timepreparation before downloading them. After an order is submitting, you can download the product when you receive a Preparation Complete Notification Email. The product will be deleted from the system after the download deadline has expired.	/order
	Processed products	Products is requested to customize. You can download the product when you receive a Preparation Complete Notification Email. The product will be deleted from the system after the download deadline has expired.	/process
Ordered made products		Products that have received an order to EOIS by processing parameters. Ordered made products can only be used by PI, Col and special agencies that have a collaborative agreement with JAXA, and are only delivered via SFTP.	/UserDir
Near real-time Product		Near real-time products is the special products which is delivered shortly after observation, and it can only be provided via SFTP.	/nrt



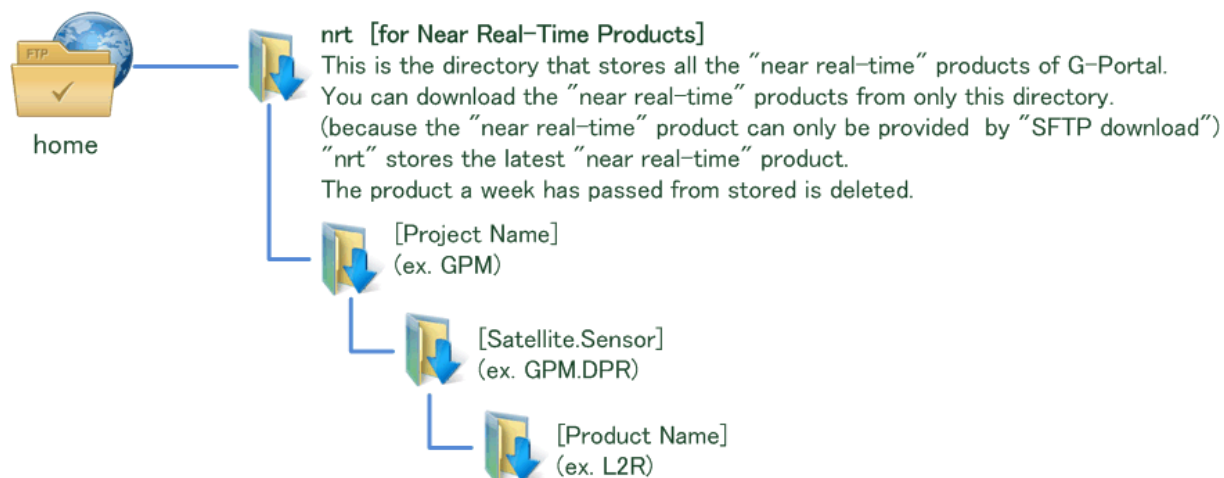
### 3.3.1. Directory structure

#### ◆ Directory structure for Standard Products

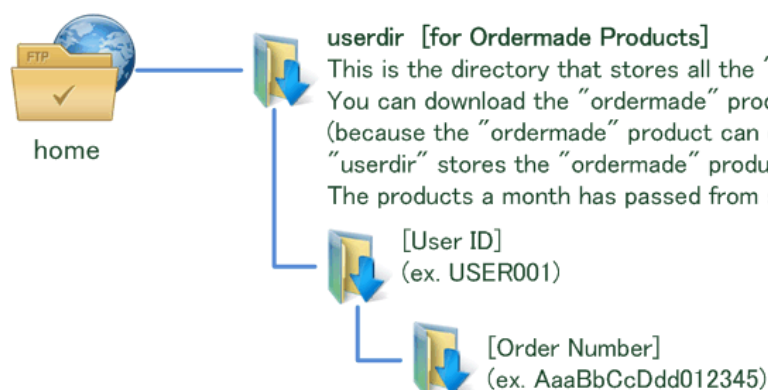
Directories for standard products can be accessed by all users who have registered a public key. The directory structure for standard products is as follows:



- ◆ **Directory structure for Near real-time products**  
Directories for Near real-time Products can be accessed by all users who have registered a public key. The directory structure for near real-time products is as follows:



- ◆ **Directory structure for Ordered made products**  
Directories for Ordered made Products can only be accessed by PI, Col and special agencies that have a collaborative agreement with JAXA. The directory structure for ordered made products is as follows:



## 3.4. Download products

This section outlines the procedures that are Direct get (SFTP) examples from Unix and Windows.

◆ Basic information

Access Address	sftp.gportal.jaxa.jp
Port Number	2051
Protocol	SFTP
User Name	User account registered in G-Portal
Password	Passphrase registered in 3.1Generate a public key

### (1) UNIX (including Mac OSX)

◆ Connect SFTP

Enter the following command into the command line to enable access using SFTP.

```
$ sftp -oPort=2051 [Account]@sftp.gportal.jaxa.jp
```

"Password:" will be displayed in the command line if a proper connection to the system has been established, so enter your password (passphrase registered in 3.1Generate a public key).

Note: If you registered no passphrase in 3.1, this command line will not be displayed.

The following will be displayed if you have logged in successfully:

```
sftp>
```

◆ List

Enter:

```
sftp> ls
```

to display a list of files and directories.

◆ Change directories

Enter:

```
sftp> cd [Directory Name]
```

to move to a specific directory.

\* Note: Due to access restrictions, you might not be able to move to a directory even if it is displayed in the list.

◆ Download a file

Enter:

```
sftp> get [File Name]
```

to get a file. The specified file will be downloaded and saved in a directory on your computer.

◆ Exit SFTP

Enter:

```
sftp> exit
```

to close SFTP.

## (2) Windows

The following outline is an example using the “WinSCP” software application to download via SFTP.

Download WinSCP from the following site and install it on your computer.

WinSCP download site: <http://winscp.net/eng/download.php>

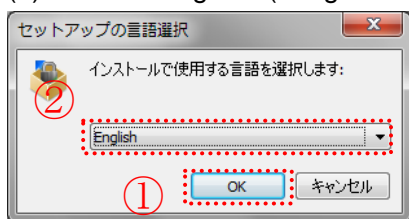
### ◆ Installation WinSCP

(1) Download WinSCP Installer from the following site.

WinSCP download site: <http://winscp.net/eng/download.php>

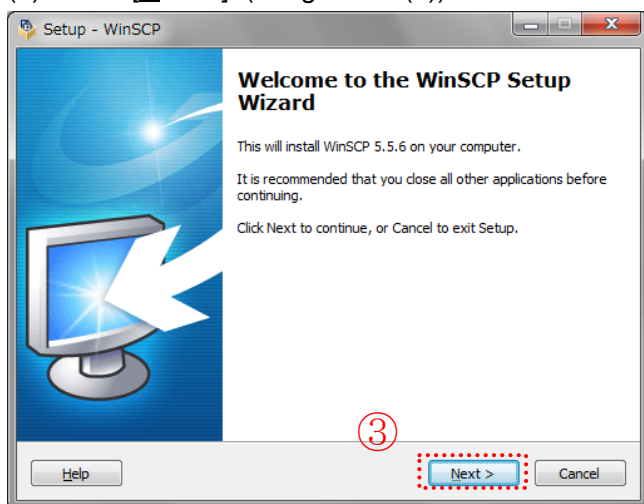
(2) Start WinSCP Installer.

(3) Select “English” (Image 3.4-1(1)), and click [OK]. (Image 3.4-1(2))



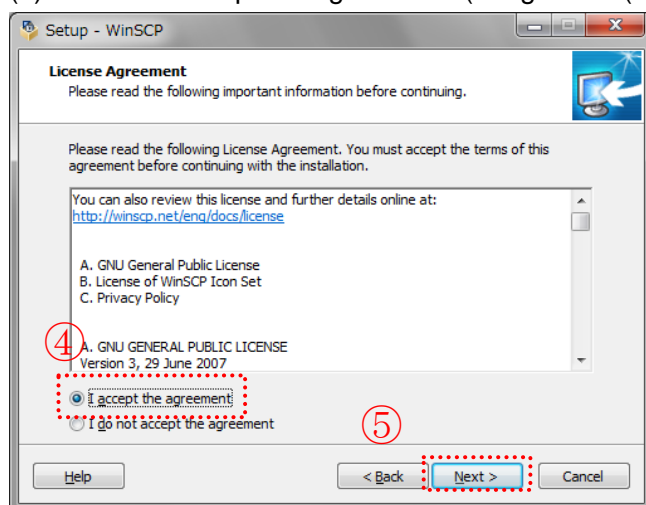
**Image 3.4-1**

(4) Click [Next >]. (Image 3.4-2(3))



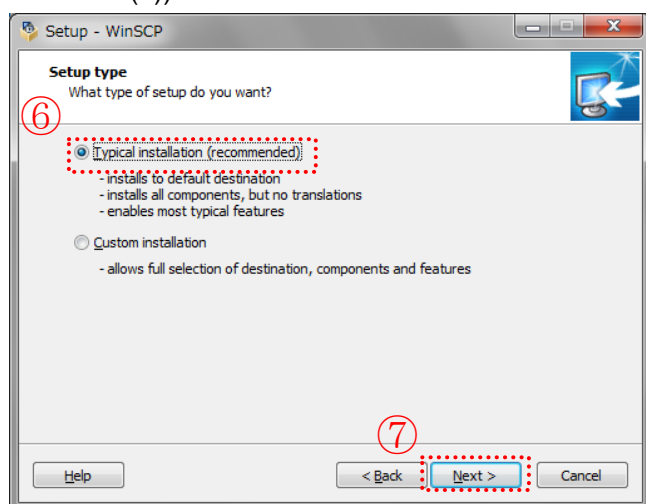
**Image 3.4-2**

(5) Select “I accept the agreement” (Image 3.4-3(4)), and click [Next]. (Image 3.4-3(5))



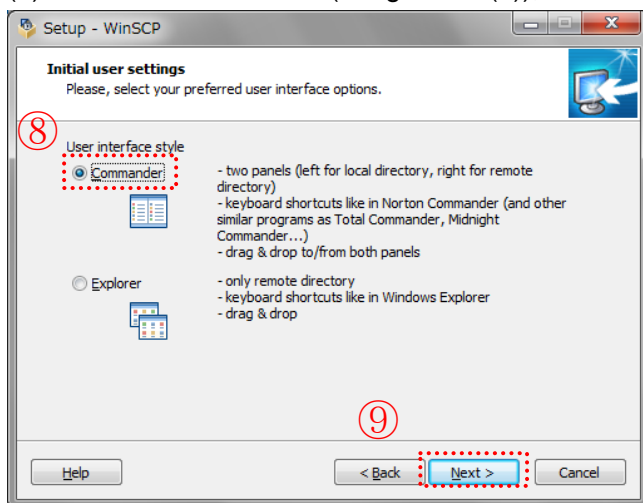
**Image 3.4-3**

(6) Select “Typical installation (recommended)” (Image 3.4-4(6)), and click [Next]. (Image 3.4-4(7))



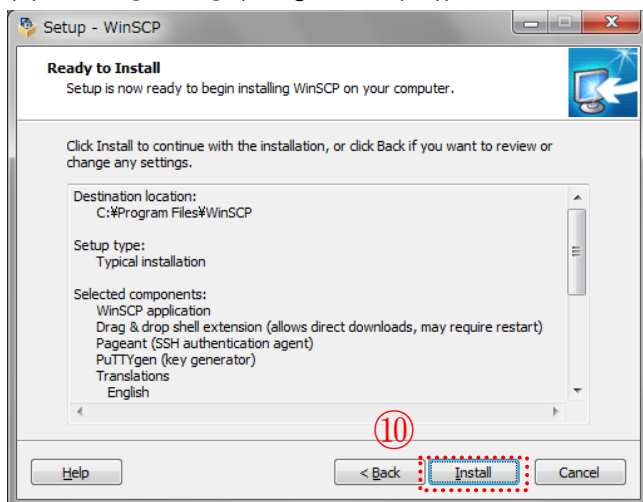
**Image 3.4-4**

(7) Select “Commander” (Image 3.4-5(8)), and click [Next]. (Image 3.4-5(9))



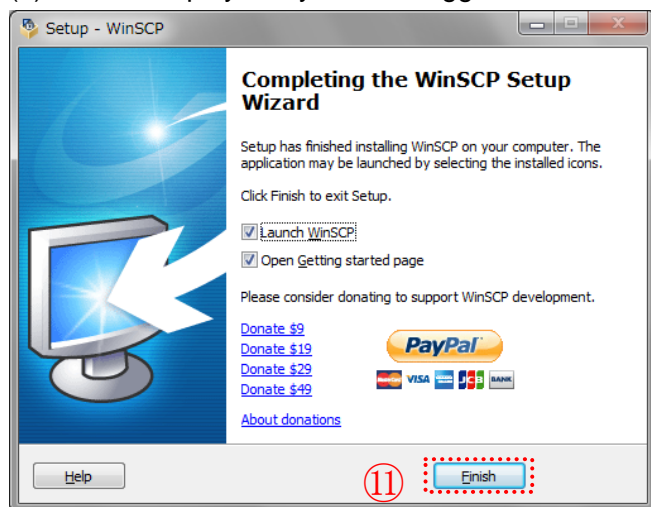
**Image 3.4-5**

(8) Click [Install]. (Image 3.4-6(10))



**Image 3.4-6**

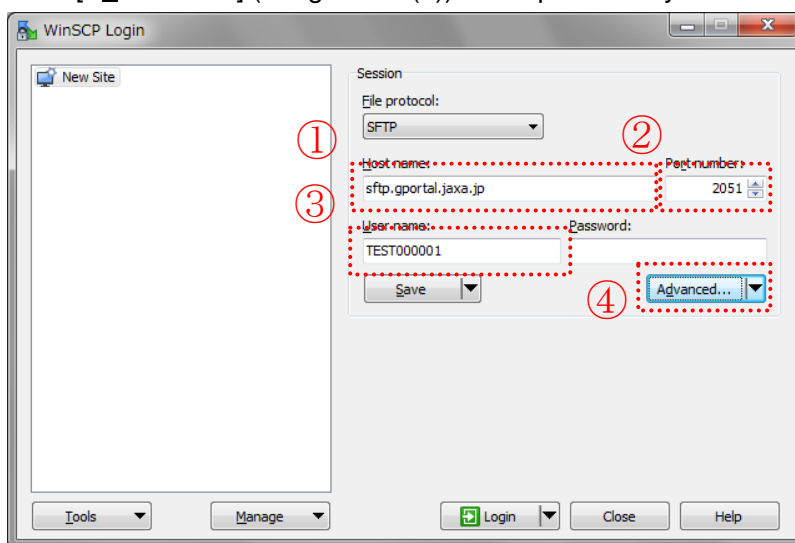
(9) will be displayed if you have logged in successfully. Click [Finish]. (Image 3.4-7(11))



**Image 3.4-7**

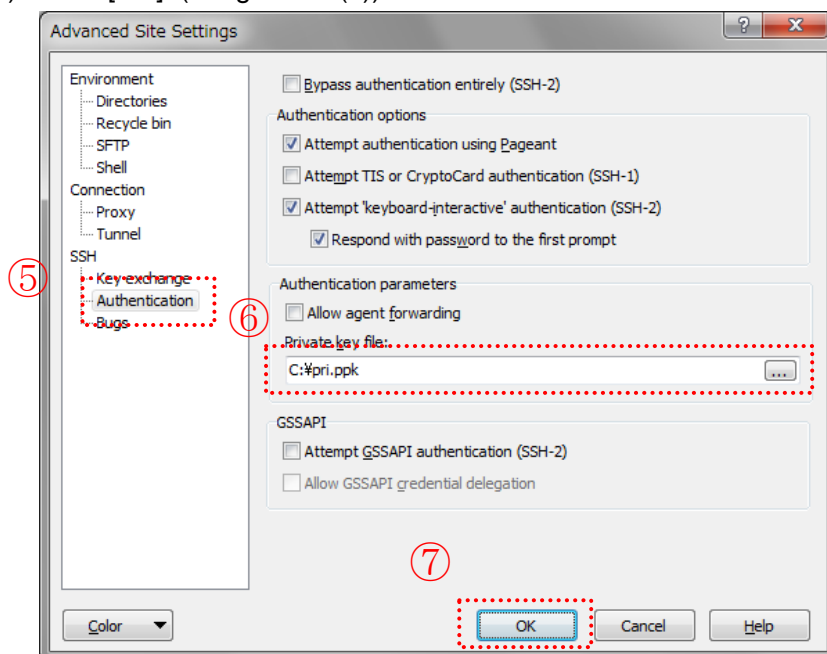
◆ Connect SFTP

- (1) Start WinSCP.
- (2) Enter "sftp.gportal.jaxa.jp" into "Host name". (Image 3.4-8(1))
- (3) Enter "2051" into "Port number". (Image 3.4-8(2))
- (4) Enter the user account registered in G-Portal into "User name". (Image 3.4-8(3))
- (5) Click [Advanced...] (Image 3.4-8(4)) to set private Key File.



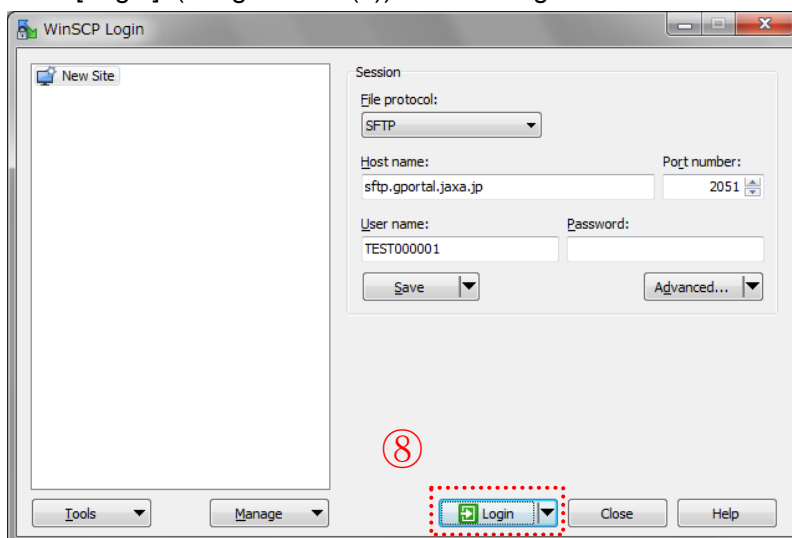
**Image 3.4-8**

- (6) Select Authentication. (Image 3.4-9(5))
- (7) Select private key file that you created into "Private key file". (Image 3.4-9(6))
- (8) Click [OK]. (Image 3.4-9(7))



**Image 3.4-9**

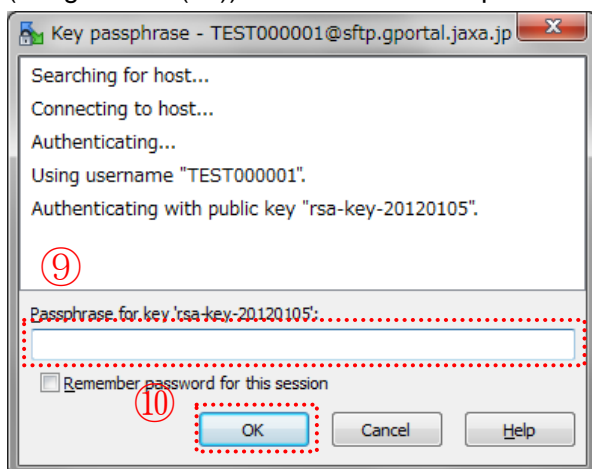
- (9) Click [Login]. (Image 3.4-10(8)) to SFTP login.



**Image 3.4-10**

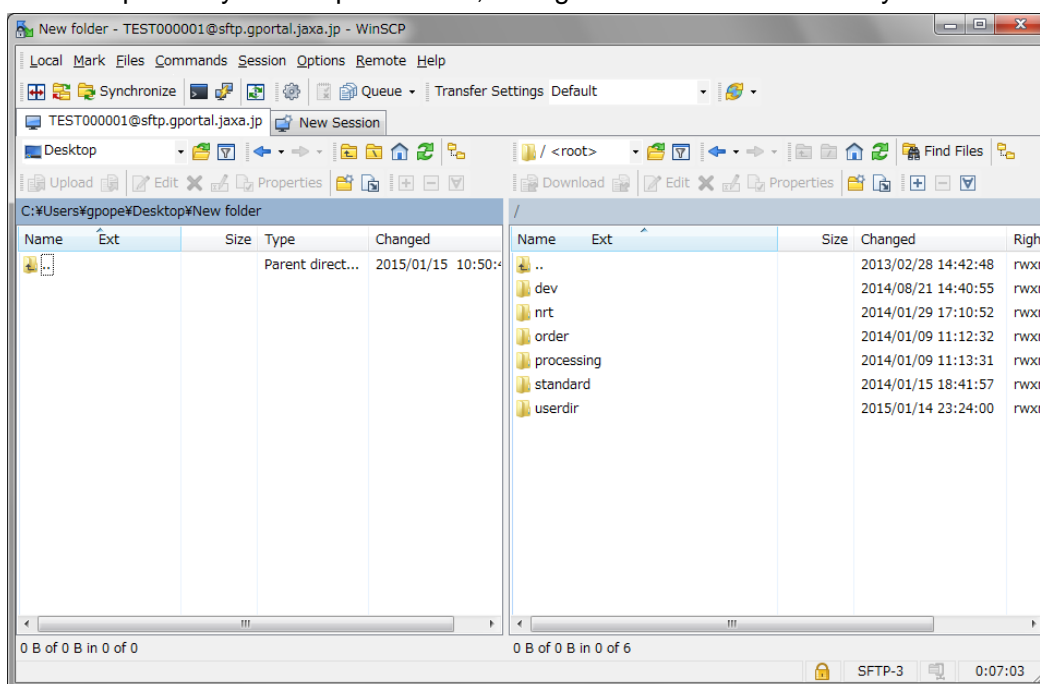


- (10) If you have set a password to decrypt the private key (Image 3.4-11(9)), click [OK] (Image 3.4-11(10)) button to enter the password that you set.



**Image 3.4-11**

- (11) Image 3.4-12 will be displayed if you have logged in successfully. The left pane is your computer folder, the right is the G-Portal directory.

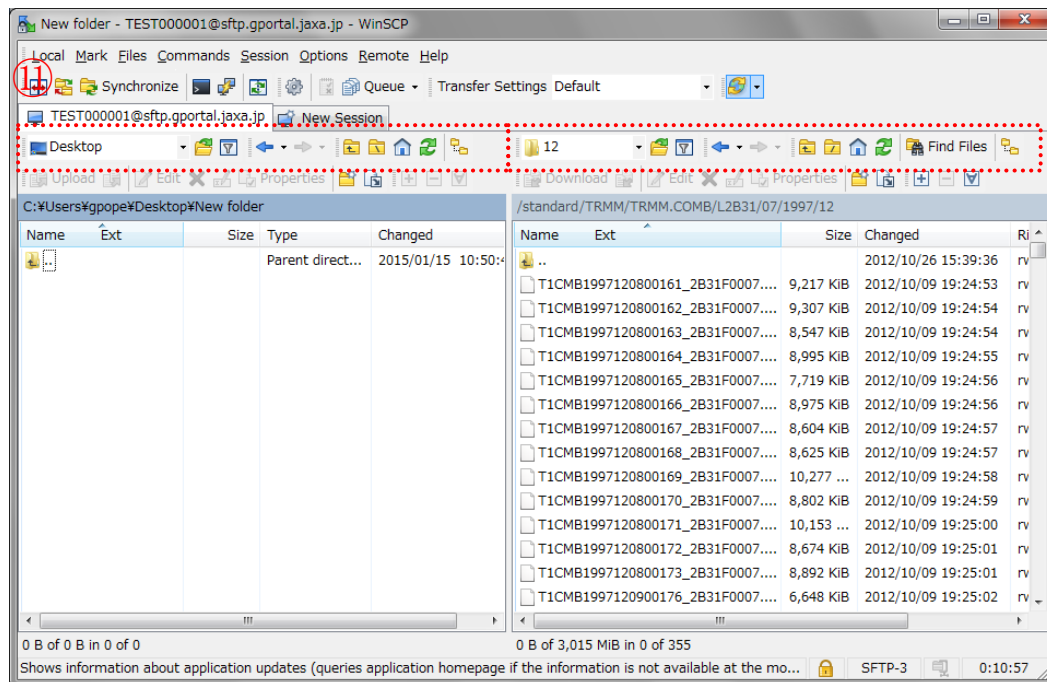


**Image 3.4-12**

◆ Change directories

Change directories from the pull-down menu and navigation buttons.(image 3.4-13(11))

Note: Due to access restrictions, you might not be able to move to a directory even if it is displayed in the list.

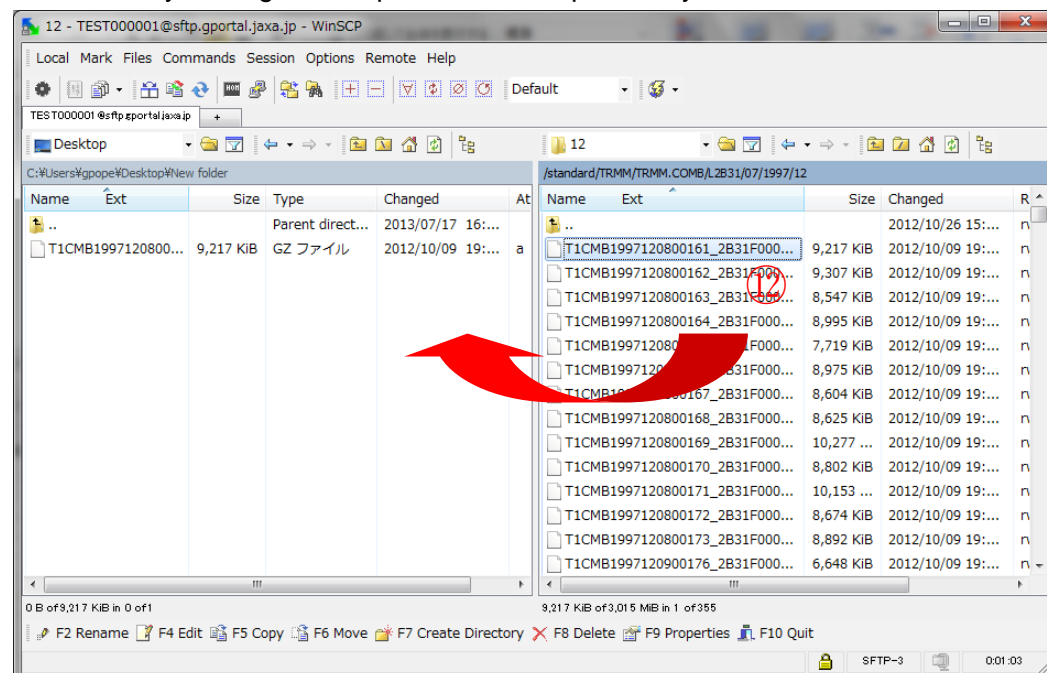


**image 3.4-13**

◆ Download a file

Drag and drop the products you want to download. (Image 3.4-14(12))

Note: When you drag and drop to select multiple files, you will be able to bulk download.



**Image 3.4-14**

- ◆ Exit SFTP  
Click [Commands]-[Quit] to close WinSCP.

## 4. Product Search and Download

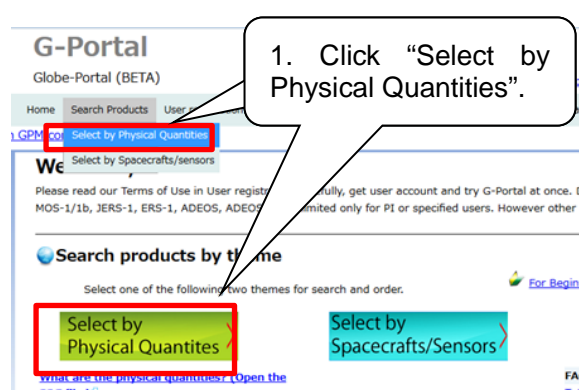
### 4.1. Product Search

The following are three ways to search for products

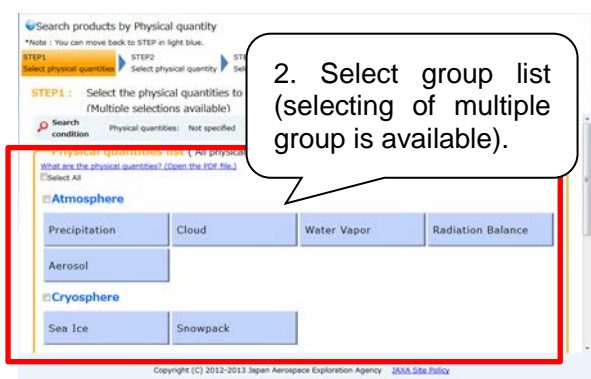
- Search by physical quantities ..... Section 4.1.1
- Search by spacecrafts/sensors ..... Section 4.1.2
- Search using saved search conditions ..... Section 4.1.3  
(only available to registered users)

#### 4.1.1. Search by physical quantities

Search for products by physical quantities, and the period and region. See “6.1 Checking the provided spacecrafts/sensors and physical quantities” for further details.



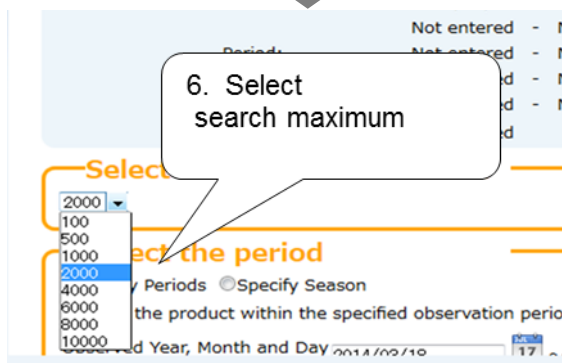
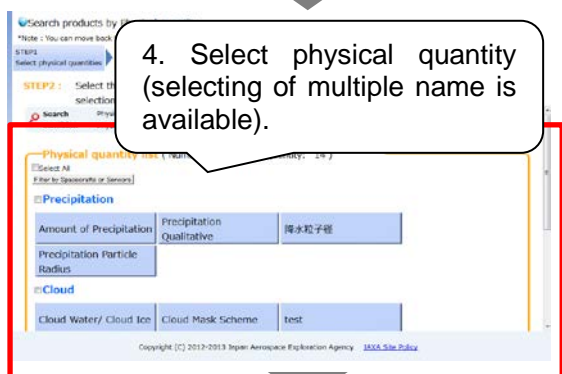
1) Click the “Select by Physical Quantities” button at the center of the Home (Top) page or click the “Search Products” → “Select by Physical Quantities” link from the menu. The window will switch to the Physical Quantities Selection window.



2) A group list of physical quantities per category will be displayed in the Physical Quantities Selection window. Click the name of the physical quantities. You can click multiple physical quantities.

See “6.1 Checking the provided spacecrafts/sensors and physical quantities” to check which physical quantities a physical quantity is included in.

\* A description of the physical quantities and the physical quantity will be displayed when you move the mouse over the physical quantities button.



3) Click the physical quantities, and click the “Next” button at the top of the window.

4) A physical quantity list contained in the physical quantities that you clicked in 3) will be displayed.

Click the physical quantity name to search in. You can click multiple physical quantity names. The physical quantity displayed in this window can be filtered by the spacecrafts/sensors that were used for the observation (see “Appendix 4 Filter Search Conditions” for further details).

\* A description of the physical quantity will be displayed when you move the mouse over the physical quantity button.

5) Click the physical quantity name to search, and click the “Next” button at the top of the window. The window will switch to Period and Region Selection window.

6) Select the maximum number of searches. (Default: 2000)

※ If the maximum number is increased, search processing time may become long and consumption of the memory of a browser also becomes large.



9. Click "Specify Region".

7) The Period and Region Selection window will be displayed. First specify the period to search. There are two methods to select the period: "Period Selection" and "Season Selection" (see "Appendix 3 Specify Observation Period" for further information on operating methods).

There are three methods for entering the period (see "Appendix 3 Specify Observation Period" for further information on operating methods):

- Enter text
- Select dates from the calendar icon
- Use the observation period bar chart

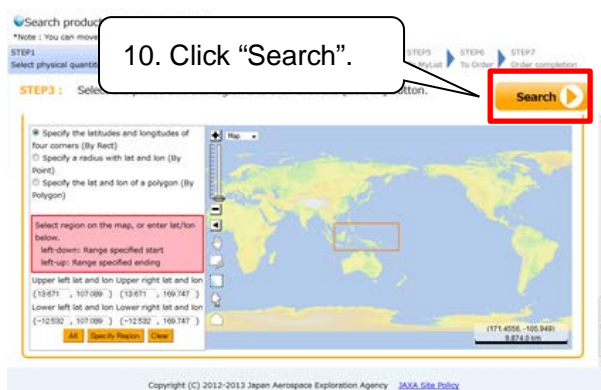
8) Specify the region to search. There are three methods to select the region (see "Appendix 3 Specify Observation Period" for further information on operating methods):

- There are three selection methods for the observation range as follows:
  - Specify the latitudes and longitudes of four corners
  - Specify a circle with point and radius
  - Specify the latitudes and longitudes of a polygon

The region selection input method includes entering text or dragging a shape over the map.

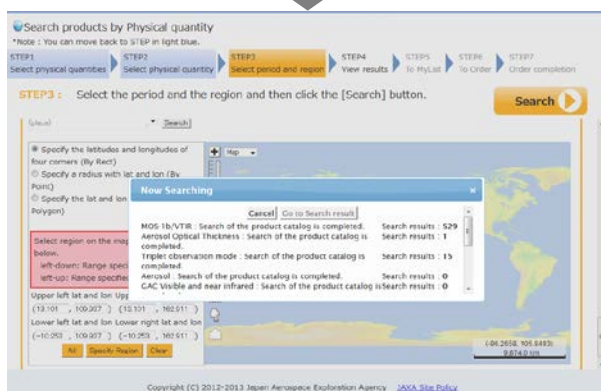
Note that observation region may include some deviation.

9) If the range to search is entered as text, click the "Specify Region" button (no need to click the button if the map is used to select the region).



10) Click the "Search" button at the top of the page to start the search.

\* The "Search" button can be clicked after all search conditions have been entered.



A dialog box will be displayed while the search is being conducted. The search result window will be displayed automatically if the search finishes normally.

If there is an error during the search, or the search returns 0 or more than the specified maximum, the search result window will not be displayed automatically.

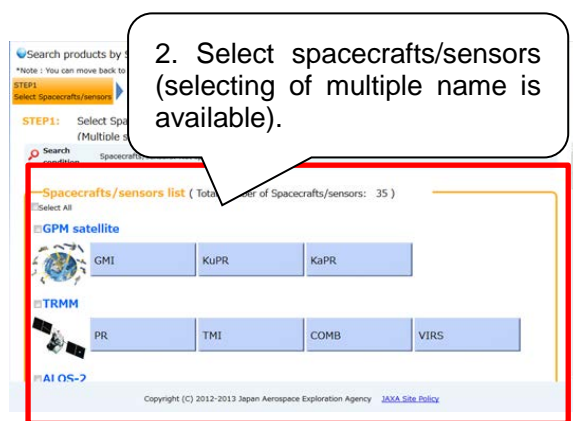
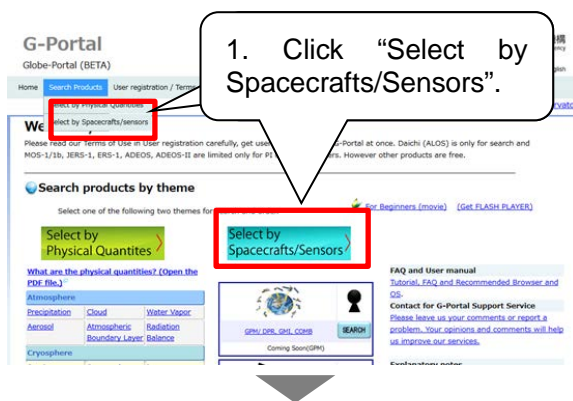
If only the product that you searched for will be displayed, click the "Display search results" button.

To display search results correctly, change the search conditions and search again. See "Appendix 4 Filter Search Conditions" for information on search conditions.



### 4.1.2. Search by spacecrafts/sensors

Search for products by spacecrafts/sensors and products, and specifying the period and range.



1) Click the "Select by Spacecrafts/Sensors" button at the center of the Home (Top) page or click the "Search Products" → "Select by Spacecrafts/Sensors" link from the menu. The window will switch to the Spacecrafts/Sensors Selection window.

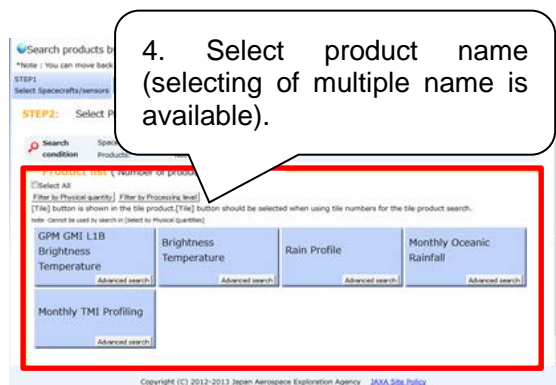
※ If you click the "SEARCH" button on the right-side of the spacecraft / sensor link, you can search specified spacecraft / sensor. For details, please refer to "Appendix 4-5 (Filter spacecrafts/sensors on Home (Top) page)".

2) A list of spacecrafts/sensors will be displayed in the Spacecrafts/Sensors Selection window. Click the button of the spacecrafts/sensors to search. You can click multiple spacecrafts/sensors.

\* A description of the spacecrafts/sensors will be displayed when you move the mouse over the spacecrafts/sensors name button.

3) Click the spacecrafts/sensors, and click the "Next" button at the top of the window.





4) The products contained in the spacecrafts/sensors that you selected in 3) will be displayed. Click the product name to search in. You can click multiple products. The products displayed in this window can be filtered by the physical quantity and pressing level that was used for the observation (see “Appendix 4 Filter Search Conditions” for further details).

\* A description of the physical quantity will be displayed when you move the mouse over the physical quantity button.

\* “Tile” button is displayed for product available to use tiled map in search.

Click “Tile” button, then a dialog box of tile map will be displayed. Input the tile number to filter the search result (see “Appendix 4 Filter Search Conditions” for further details).

5) Click the “Next” button at the top of the window.

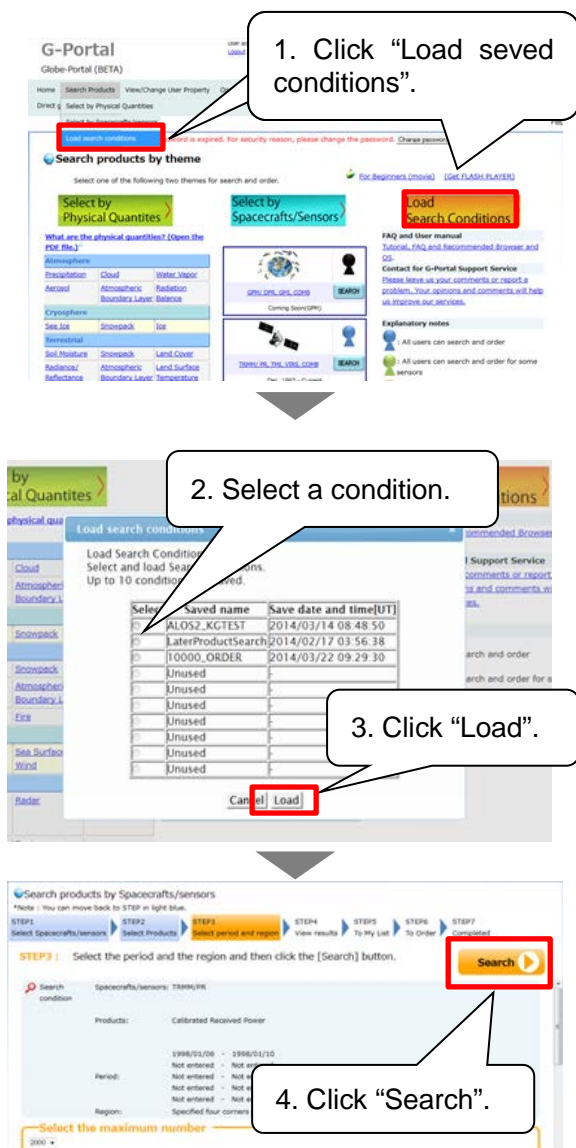


For further procedures, see “4.1.1 Search by physical quantities”.

As for the product available to use tiled map in search, a tile number is given to priority more than area you selected at STEP3 when you set a tile number.

### 4.1.3. Search by saved condition

The system allows you to save search conditions, and you can load them for easy operation.. However this option needs your login as registered user. (see “2.2 Login to the system”)



1) Click the “Load saved conditions” button at the center of the Home (Top) page or click the “Search Products” → “Load saved conditions” link from the menu. A pop-up window will be displayed allowing you to select saved search conditions.

2) Click “Load search conditions”.  
3) Click the “Load” button.

4) A window will be displayed with the search conditions entered, and allowing you to specify the period and region. Check the search conditions and click the “Search” button at the top of the window to start the search.

## 4.2. Display search results

This section outlines the procedures that are available from the search results window. Note that "Save search conditions" is only available to registered users.

- Check search results with a list ..... 4.2.1
- Check search results with thumbnails ..... 4.2.2
- Check detailed information ..... 4.2.3
- Check the observation region on the map ..... 4.2.4
- Check search conditions ..... 4.2.5
- Save search results in CSV format ..... 4.2.6
- Save search results in KML format ..... 4.2.7
- Save commonly used search conditions (only available to registered users) ..... 4.2.8

Products that have stopped delivering are not displayed as search results.

[Search results window]

The screenshot shows the 'Search results window' with several callouts pointing to specific features:

- 4.2.8 Save commonly used search conditions (only available to registered users)**: Points to the 'STEP4' button in the top navigation bar.
- 4.2.5 Check search conditions**: Points to the 'Search conditions' section on the left.
- 4.2.4 Check the observation region on the map**: Points to the map area showing a world map with a highlighted region.
- 4.2.6 Save search results as a CSV file**: Points to the 'CSV' button in the bottom left.
- 4.2.7 Save search results as a KML file**: Points to the 'KML' button in the bottom left.
- 4.2.2 Check search results with thumbnails**: Points to the 'Thumbnail' button in the bottom left.
- 4.2.3 Check detailed**: Points to the 'Detailed' button in the bottom right.
- 4.2.1 Check search results with a list**: Points to the table of search results.

No.	Physical quantity	Physical quantity	Period	Search results
1	Amount of Precipitation	TRMM/COMB	2012/03/26 13:38:14 - 2012/03/26 15:10:38	[Thumbnail]
2	Amount of Precipitation	TRMM/COMB	2012/03/26 15:10:39 - 2012/03/26 16:43:02	[Thumbnail]
3	Amount of Precipitation	TRMM/COMB	2012/03/26 16:43:02 - 2012/03/26 18:15:25	[Thumbnail]
4	Amount of Precipitation	TRMM/COMB	2012/03/27 12:44:11 - 2012/03/27 14:16:34	[Thumbnail]
5	Rain Profile	TRMM/COMB	2012/03/27 14:16:34 - 2012/03/27 15:48:57	[Thumbnail]
6	Rain Profile	TRMM/COMB	2012/03/27 15:48:58 - 2012/03/27 17:21:21	[Thumbnail]
7	Rain Profile	TRMM/COMB	2012/10/31 - 2012/11/01	[Thumbnail]

## 4.2.1. Check search results with a list

[List display]

Results List (Number of products : 2,000)

CSV KML

1) **List** **Thumbnail**

2) Show 10 entries

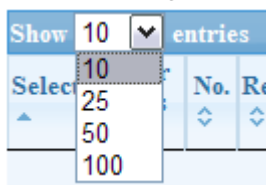
No.	Region	Product	Physical quantity	Spacecrafts/sensors	Start date and time	End date and time	Product details
1		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/08 22:09:50	2014/03/08 23:42:18	
2		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/08 23:42:18	2014/03/09 01:14:45	
3		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/09 01:14:45	2014/03/09 02:47:12	
4		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/09 02:47:12	2014/03/09 04:19:39	
5		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/09 04:19:39	2014/03/09 05:52:06	
6		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/09 05:52:06	2014/03/09 07:24:34	
7		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/09 07:24:34	2014/03/09 08:57:01	
8		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/09 08:57:01	2014/03/09 10:29:28	
9		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/09 10:29:28	2014/03/09 12:01:55	
10		GPM DPR L2 Precipitation	Amount of Precipitation	GPM satellite/DPR	2014/03/09 12:01:55	2014/03/09 13:24:22	

Showing 1 to 10 of 2,000 entries

3) << < 1 2 3 4 5 > >>

1) Click the “List display” tab on the search results window. The search results will be displayed as a list.

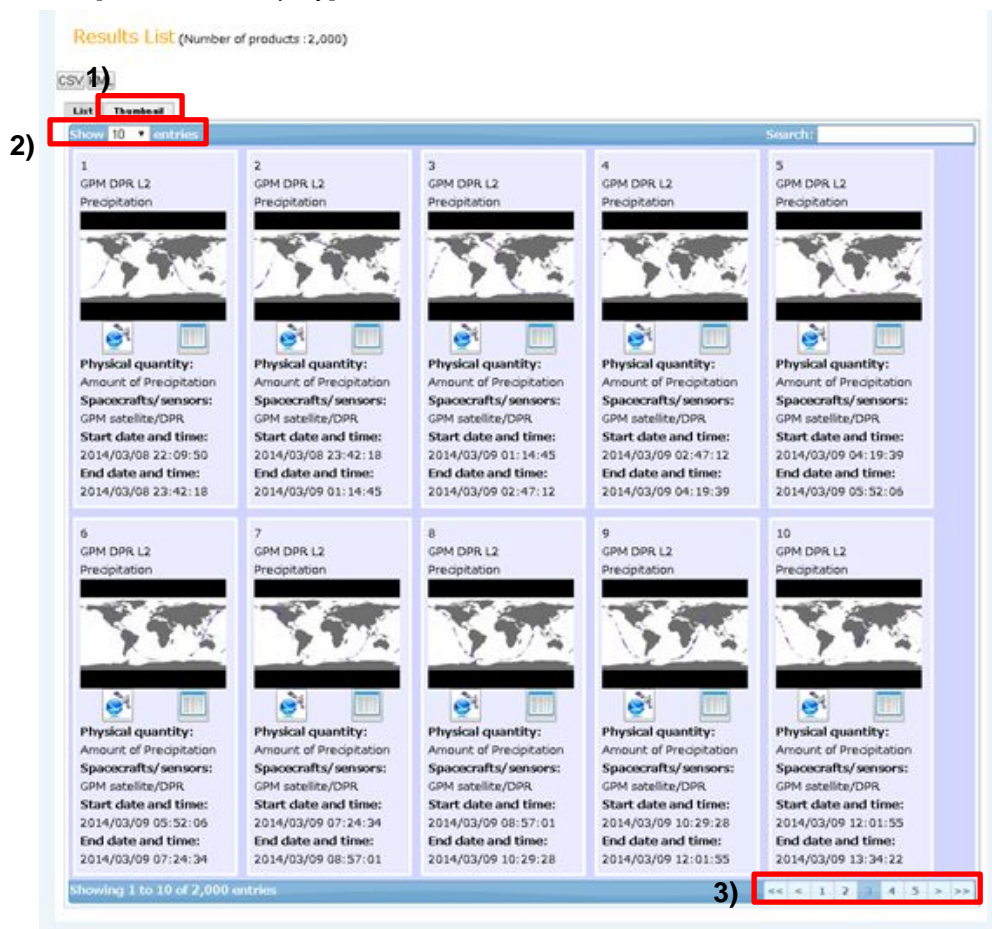
2) You can change lines displayed per a list with choosing the number from the pull-down.



3) Click the buttons and move to other lists.

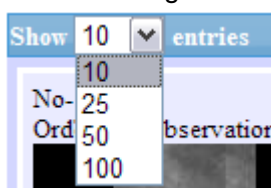
## 4.2.2. Check search results with thumbnails

[Thumbnail display]



1) Click the "Thumbnail display" tab on the search results window. The search results will be displayed as thumbnails.

2) You can change lines displayed per a list with choosing the number from the pull-down.



3) Click the buttons and move to other lists.



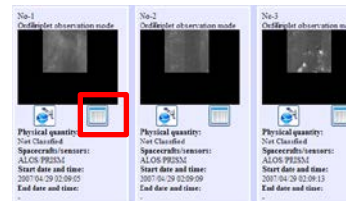
### 4.2.3. Check detailed information

You can check detailed information of searched products. Click the “Show detail” button in the list display or thumbnail display. Detailed information will be displayed in a separate window.

[List display]

Select	Order status	No.	Region	Product	Physical quantity	Spacecraft/sensors	Start date and time	End date and time	Product details
No-Order		1		Triplet observation mode	Not Classified	ALOS-PRISM	2007-04-29 02:09:05	-	
No-Order		2		Triplet observation mode	Not Classified	ALOS-PRISM	2007-04-29 02:09:09	-	
No-Order		3		Triplet observation mode	Not Classified	ALOS-PRISM	2007-04-29 02:09:13	-	

[Thumbnail display]



[Detailed information (separate window)]

1) **Region**

2) **Browsing image**

3)

Satellite Name/Sensor Name	TRMM/PR
Physical Quantity Name	Radar Reflectivity   Amount of Precipitation   Precipitation Qualitative   Backscattering cross section
Processing Level	2A
Dataset Name	25
Start Observation Date Time (UTC)	2013-01-17 01:13:52.04+00
End Observation Date Time (UTC)	2013-01-17 02:46:16.003+00
Scene Number	86427
Product Version	07
Algorithm Version	7.73
Identifier	T1PR2013011786427_2A25F0007
Subsatellite Start Position (latitude longitude)(deg)	-35.112 89.423
Scene Center Time (UTC)	2013-01-17 02:00:03.062+00
Scene Center Position (latitude longitude)(deg)	35.2 -102.449
Subsatellite End Position (latitude longitude)(deg)	-35.112 65.784
Ascending Node Time (UTC)	2013-01-17 01:36:58.06+00
Ascending Node Longitude (deg)	173.454
Sun Elevation at Start Point (deg)	-8.08
Sun Elevation at End Point (deg)	-8.32
Number of Rain Scans	1706
Number of Missing Data	0
Image Quality Degradation Percentage	0
Total Quality Code	Good
Product File Name	T1PR2013011786427_2A25F0007
Product Size (MByte)	14
Processing Time (UTC)	2013-01-21 01:04:12+00

4) **Close**

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1) The observation region is displayed on the map.

2) A browse image will be displayed for products with browse images available. An image with

“No Image” will be displayed if no browse images are available for that product.

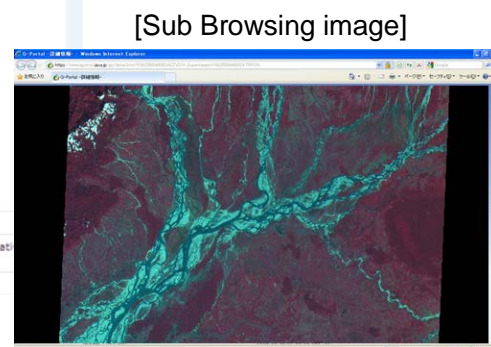


- 3) Detailed information of the product will be displayed.
- 4) Click the “Close” button to close the detailed information window.

When the product has a sub browse image, a message (“To see other Browsing images”) and the link to the image (ex. img01~imgnn) will be displayed.

To see other Browsing images | [img01](#)







Click the link, the sub browse image will be displayed in a separate window.



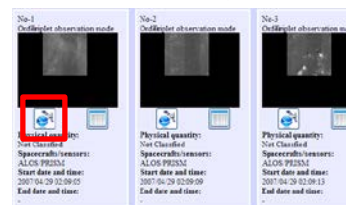
#### 4.2.4. Check the observation region on the map

You can check the observation region of searched products on the map. Click the “Show on map” button in the list display or thumbnail display. A map will be displayed at the top right of the search results window.

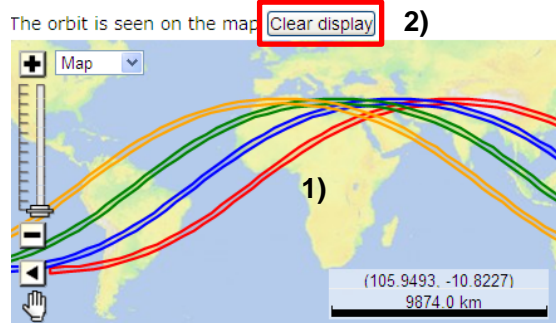
[List display]

Select	Order status	No.	Region	Product	Physical quantity	Spacecraft/sensors	Start date and time	End date and time	Product details
No-Order	1			Triplet observation mode	Not Classified	ALOS-PRISM	2007/04/29 02:09:05	-	
No-Order	2			Triplet observation mode	Not Classified	ALOS-PRISM	2007/04/29 02:09:09	-	
No-Order	3			Triplet observation mode	Not Classified	ALOS-PRISM	2007/04/29 02:09:13	-	

[Thumbnail display]



### [Observation region display]



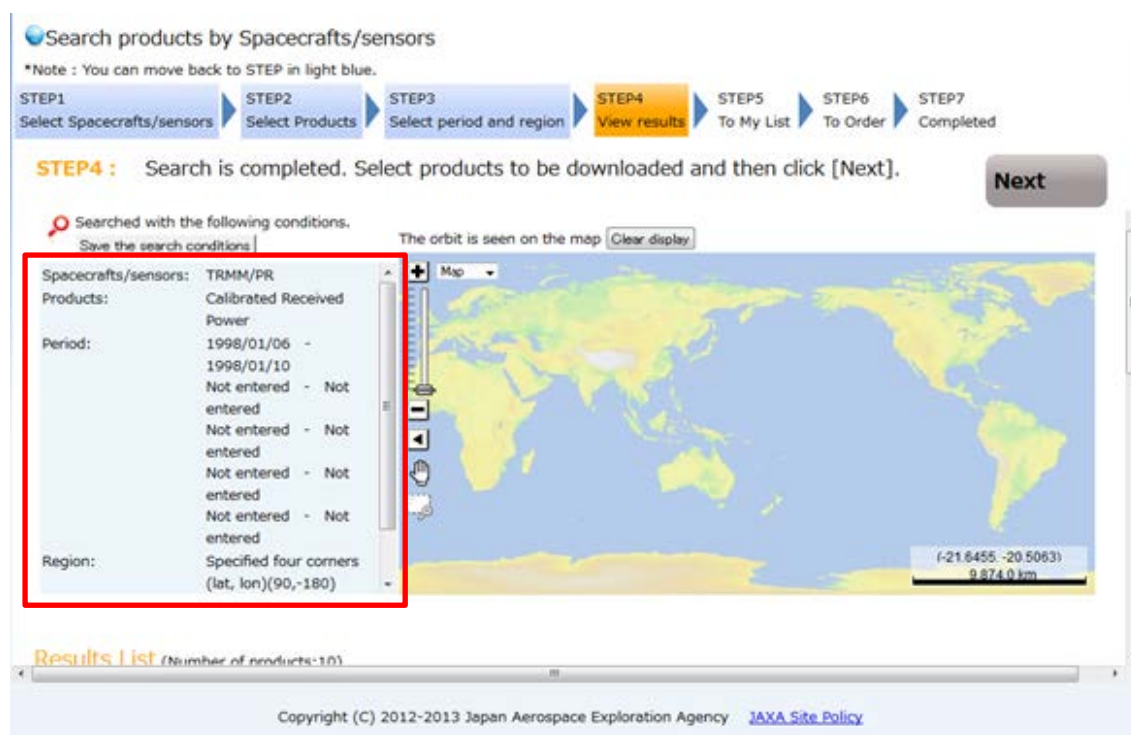
1) The observation region of the selected product will be displayed.

2) Click the “Clear display” button to clear all displays of observation regions from the map.



### 4.2.5. Check search conditions

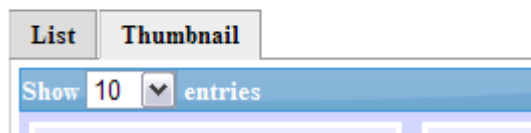
The entered search conditions will be displayed at the top left of the search results window.



### 4.2.6. Save search results in CSV format

1) Results List (Number of products : 1999)

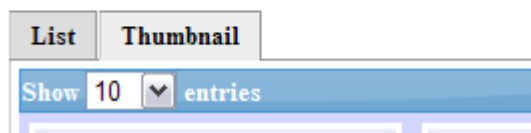
1)



1) Click "CSV" in the center of the search results window to save the search results on your computer in CSV format.

### 4.2.7. Save search results in KML format

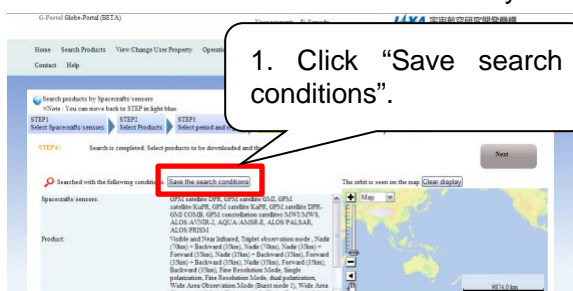
Results List (Number of products : 1999)



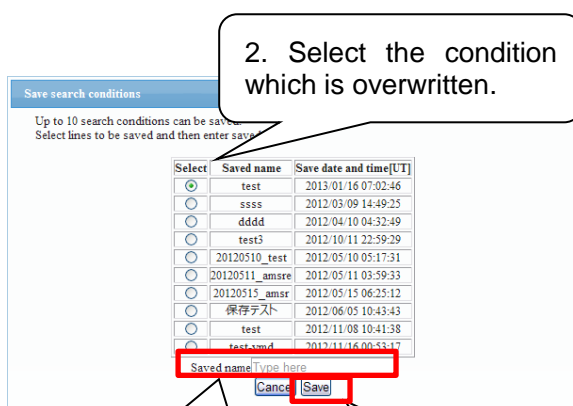
1) Click "KML" in the center of the search results window to save the search results on your computer in KML format.

## 4.2.8. Save commonly used search conditions (only available to registered users)

You can save search conditions that you have configured.



1) Click the “Save search conditions” button. A dialog box allowing you to save search conditions will be displayed.



2) A list of saved search conditions will be displayed. Up to 10 conditions can be saved. Select a condition that has been saved in the past will overwrite the saved information.

3) Enter a save name.

4) Click the “Save” button to complete saving the conditions and close the dialog box.



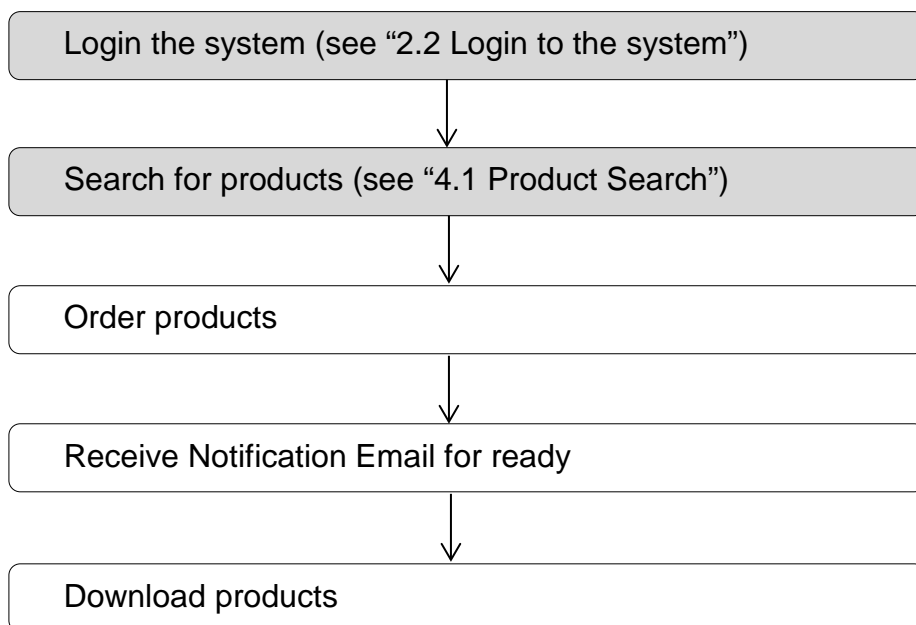
3. Enter a name.

4. Click “Save”.

### 4.3. Order and download products

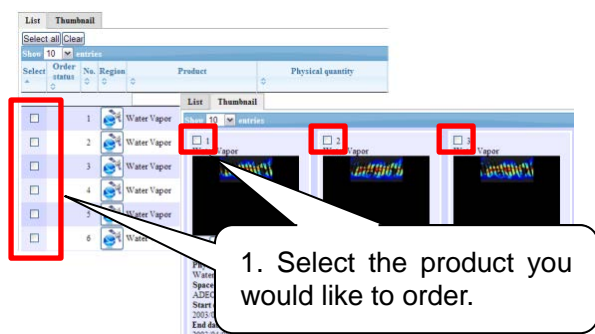
Products can only be ordered and downloaded by users who have logged into the system. See “2 Register User” for information on registering users with the system and logging in.

This section outlines the procedures required to order products and download them.

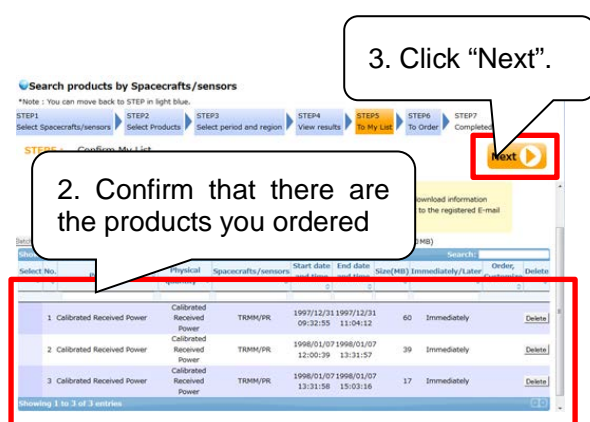


### 4.3.1. Order products

You can order products from the search results window (registered users only).




1) After login the system, search for products that you would like to order to display the search results window. Click the product that you would like to order from the search results and click the “Next” button. The “My List” window will be displayed.



2) Check through the products that you selected in the My List window. You can use the “Delete” button to delete products that you do not wish to order from the list of products that is displayed.

You can specify additional customising requests such as trimming, converting formats or setting processing parameters from this screen (see “Appendix 5 Request for customizing” and “Appendix 10 Setting Processing Parameters”).

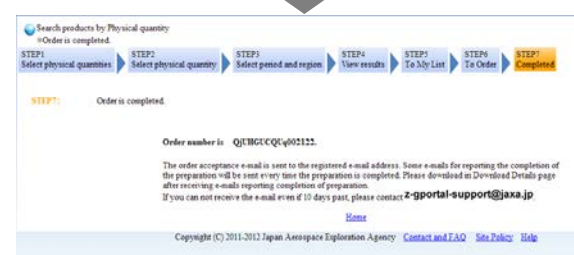
※The “customize” button (  ) will only be displayed if a product can be customized.



3) Check the details displayed in My List and click the “Next” button.

4) Check the order details.

5) If the order details are correct, click the “Order” button.



This completes your order.

After the order is complete and preparations for the download have been finalized, a Notification Email for ready will be sent by the G-Portal system.

### 4.3.2. Download products

You can download products after you have received a Preparation Complete Notification Email from the system.

1. Click "Download information".

2. Enter the search conditions and click "Search".

3. Click the file name.

1) After login the system, click "Download Information" from the menu. The Download Information window will be displayed.

2) Enter the order number or order date as the search conditions and click the "Search" button.

3) Click the file name of the product you want to download to start downloading the product.

Use the following procedures if you want to download multiple products as an archive.

1. Select the products. (selecting of multiple products is available).

2. Click "Download".

3. Click "Download".

1) Click multiple products from the Download Information window.

2) Click "Download" to switch to the Multiple File Download window.

3) From the Multiple File Download window, click the "Download" button of the archive file that includes the products that you would like to download to start downloading the products.

### 4.3.3. Check order history and order status

After ordering a product, you can check the status of your order.

**G-Portal**  
Globe-Portal (BETA)

User account: user\_product  
[Logout](#)

[Home](#) [Search Products](#) [View/Change User Property](#) [Operational information](#) [Order history](#) [Link](#) [Download Information](#) [Announcement](#)

[Direct get \(SFTP\)](#) [Contact](#) [Help](#)

[Download the document](#)  
[Download the document](#)

The password is expired. For security reason, please change the password. [Change password](#)

**Search products by theme**  
Select one of the following two themes

[Select by Physical Quantities](#) [Select by Spacecrafts/Sensors](#) [Load Search Conditions](#)

[What are the physical quantities? \(Open the PDF file\)](#) [FAQ and User manual](#) [Tutorial](#) [FAQ and Recommended Browser and](#)

**Order history**  
You can search and view your past orders by using the order number or order date.  
Display the order details and status (\*) of the selected order.

Order No   
Ordered Date (UTC)  /  /  ~  /  /   
Please input ordered date in the format YYYY/MM/DD [Search](#)

**Order status**

- Order accepted ... Your order has been accepted. You can also cancel your order.
- Preparing ... The processing time may be fluctuating with server load. You can also cancel your order.
- Preparation completed ... You can download the products. For the retention period, see Help.
- Download completed ... Products have already been downloaded, but you can download them again.
- Download period expired ... Downloadable period have expired and the ordered products has been deleted, but you can reorder them.
- Canceled ... The order has been canceled, but you can reorder it.
- Order not

**3. Select the order.**

Select	Order No	Ordered Date(UTC)
<input type="radio"/>	GrwQRQJzR000944-1	2012/09/06 04:28:09
<input type="radio"/>	BGlpVTEUSe000910	2012/05/08 06:27:06
<input type="radio"/>	BhtzEInTw000917	2012/05/09 08:28:41
<input type="radio"/>	CXgomoArIT000920	2012/05/09 08:56:19
<input type="radio"/>	DNEZoljGHP002028	2012/12/20 12:11:22
<input type="radio"/>	DteSeveduT000975	2012/05/31 08:19:33

Showing 1 to 10 of 84 entries

**▼ Order details and status change**  
Here are the details and status of each selected order data. To change the status, click the Cancel or Reorder button.  
\*The number following hyphen is the serial number which is assigned each data in 1 order.

[Select all](#) [All clear](#) [Re-order the selected product](#) [Cancel the selected product.](#)

Show 10 entries

Select	status	Cancel/Reorder	Order number-branch number	Ordered Date(UTC)	Product	File Name
<input type="checkbox"/>	Download period expired	<a href="#">Reorder</a>	GrwQRQJzR000944-1	2012/05/11 05:36:31	Rain Profile	T1PR1998020101027_2A25F0007.01.gz
<input type="checkbox"/>	Download period expired	<a href="#">Reorder</a>	GrwQRQJzR000944-2	2012/05/11 05:36:31	Rain Profile	T1PR1998020101028_2A25F0007.01.gz
<input type="checkbox"/>	Download period expired	<a href="#">Reorder</a>	GrwOROCzR000944-3	2012/05/11	Rain Profile	T1PR1998020101029_2A25F0007.01.gz

Showing 1 to 3 of 3 entries

[Home](#)

1) After logging into the system, click “Order History” from the menu. The Order History window will be displayed.

2) Enter the order number or order date as the search conditions and click the “Search” button.



The past order history will be displayed.

3) From the Order History, click the order that you would like to check the details of.

4) The order you selected in 3) will be displayed in the Order Details and Status Change column at the top of the window so you can check details.

#### 4.3.4. Change order status

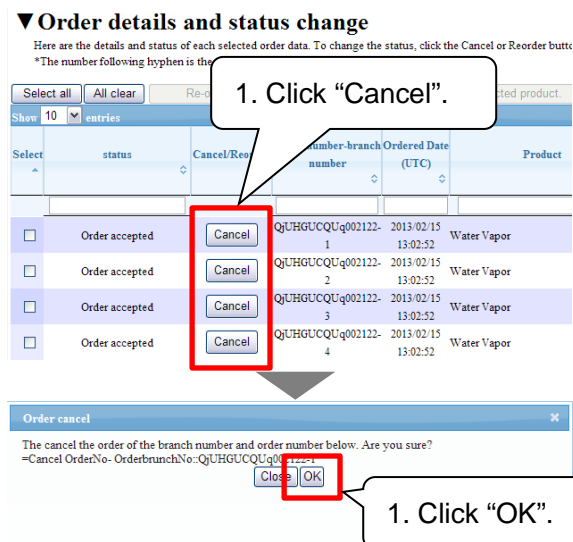
After ordering products, you can cancel orders or reorder them.

##### (1) Cancel an order

Orders can be canceled when their status is one of the following.

- Order accepted
- Preparing data

Ordered made products can cancel only at the status of "Order accepted". Cancellation at the status of "Preparing data" cannot be performed.



1) Click the "Cancel" button from the order details that you would like to change from the Order History window (see "4.3.3 Check order history and order status" for details on how to display order details).

2) Click the "OK" button in the Cancel Confirmation Dialog Box. The status of the specified order will change to "Canceled".

## (2) Reorder an order

Orders can be reordered when their status is one of the following.

- Download period expired
- Download preparation error
- Canceled

Ordered made products cannot be reordered. (make a new order).

The products that have stopped delivering cannot be reordered.

### ▼ Order details and status change

Here are the details and status of each selected order data. To change the status, click the button in the status column.  
\*The number following hyphen is the serial number which is assigned each data in 1 order.

1. Click "Reorder".

2. Click "OK".

- 1) Click the "Reorder" button from the order details that you would like to change from the Order History window (see "4.3.3 Check order history and order status" for details on how to display order details).

(Note)

In the case of the product that cannot be reordered, a "Reorder" button is not displayed.

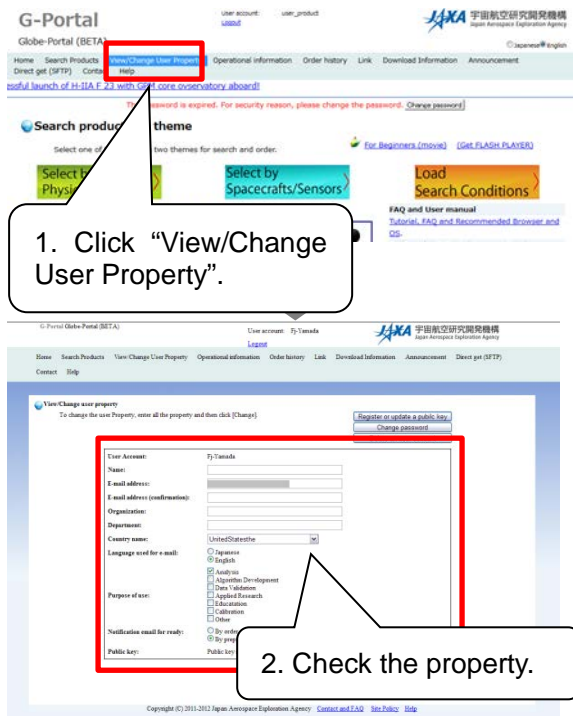
- 2) Click the "OK" button in the Reorder Confirmation Dialog Box. The status of the specified order will change to "Preparing data".



## 5. Change User Property/To Change Password

### 5.1. Check registered user property

Check the properties of registered users.



1. Click "View/Change User Property".

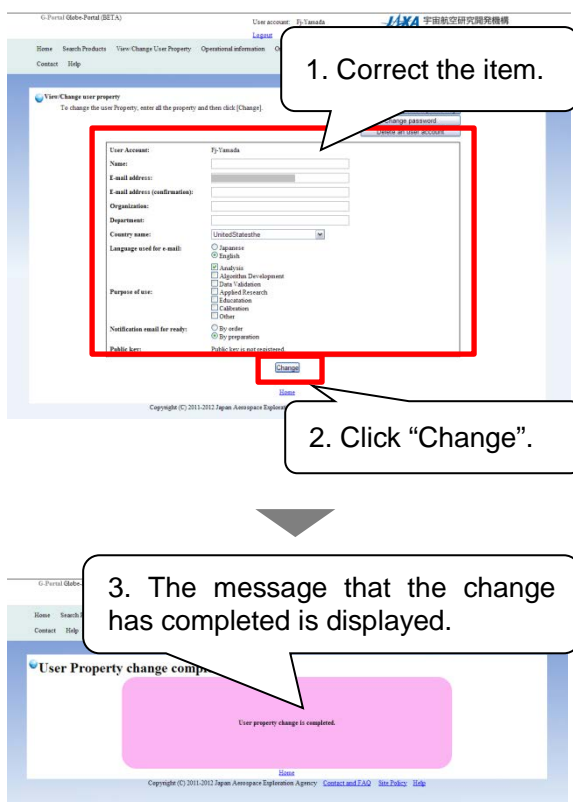
2. Check the property.

1) Click "View/Change User Property" from the menu. The View/Change User Property window will be displayed.

2) Check the registered user property.

## 5.2. Change user property

Change the properties of registered users.



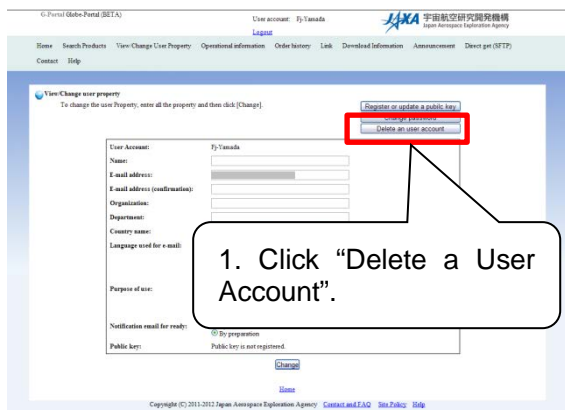
1) Correct the items you want to change via the View/Change User Property window. Items that can be changed are the name, email address, organization/department, country name, language used for email, purpose of use, Notification Email for ready. For security purposes, the name, organization and department have been left empty.

2) Click the "Change" button to change the user information.

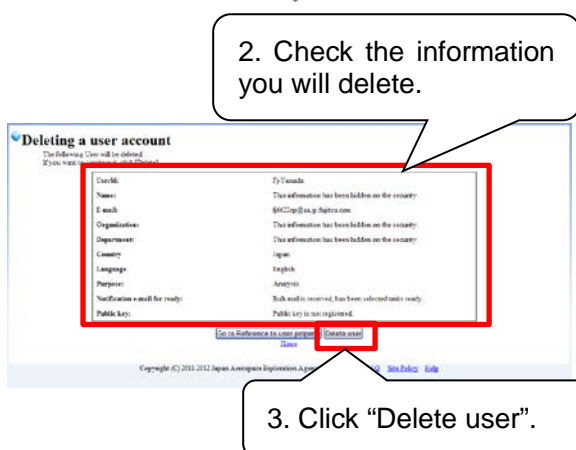
3) The User Property Change Completed window will be displayed.

## 5.3. Delete user property

Delete the property of registered users.



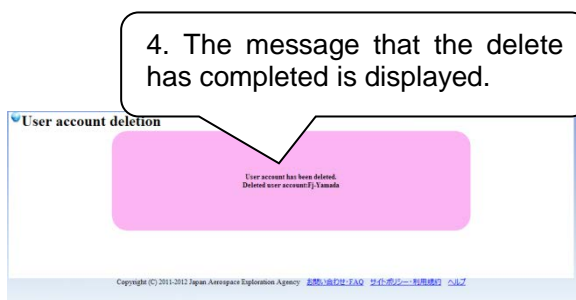
1) Click "Delete a User Account" in the View/Change User Property window. A window where you can check the user property to be deleted will be displayed.



2) Check the user property to be deleted.

3) Click "Delete User" to delete the user. The Deletion Complete window will be displayed, and the user account will be deleted.

If you do not want to delete the user account, click the "Back to View/Change User Property" button. The window will return to the View/Change User Property window.



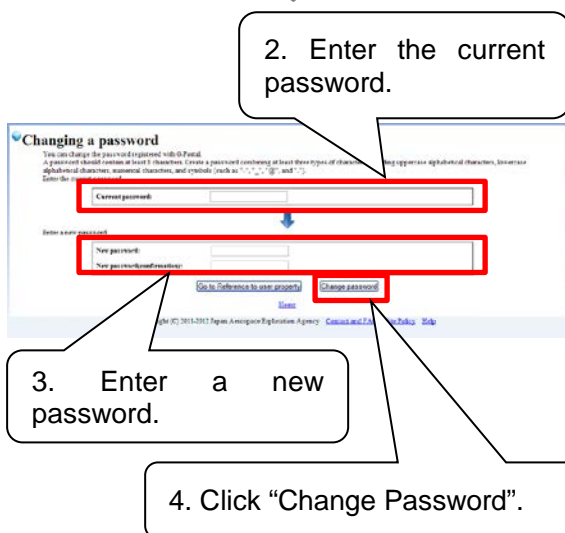
4) The User Property Deletion Complete window will be displayed.

## 5.4. Change passwords

Change the password of registered users.



1) Click “Change Password” in the View/Change User Property window. A window where you can change the password will be displayed.

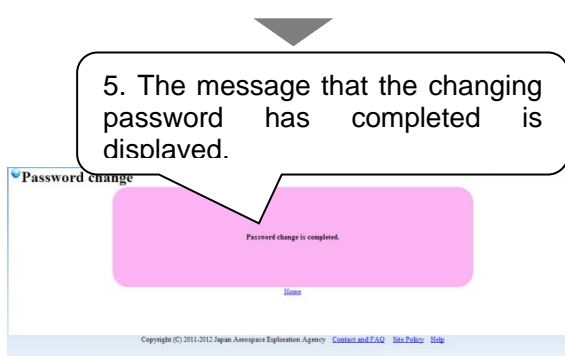


2) Enter your current password.

3) Enter a new password.

4) To change the password, click the “Change Password” button. The Change Complete window will be displayed, and the system will be updated with the new password.

If you do not want to change the password, click the “Back to View/Change User Property” button. The window will return to the View/Change User Property window.



5) The Password Change Complete window will be displayed.

## 6. Obtain Information on Products

### 6.1. Checking the provided spacecrafts/sensors and physical quantities

The spacecrafts/sensors and physical quantities provided by G-Portal can be checked from the Welcome page.

#### (1) Check spacecrafts/sensors

The spacecrafts/sensors provided by G-Portal are displayed on the Welcome page.



**GPM/ DPR, GMI, COMB**  
Coming Soon(GPM)

**TRMM/ PR, TMI, VIRS, COMB**  
Dec, 1997 - Current

**Aqua(US)/ AMSR-E**  
Jun, 2002 - Oct, 2011

**FAQ and User manual**  
[Tutorial, FAQ and Recommended Browser and OS.](#)  
**Contact for G-Portal Support Service**  
[Please leave us your comments or report a problem. Your opinions and comments will help us improve our services.](#)

**Explanatory notes**

-  : All users can search and order
-  : All users can search and order for some sensors
-  : All users can search
-  : specified users can search and order

## (2) Check physical quantities

The physical quantity groups provided by G-Portal are displayed on the Welcome page.

The physical quantities included in the physical quantity groups can be checked from the “What are the physical quantities?” (PDF file).

[What are the physical quantities? \(Open the PDF file.\)](#)

Atmosphere		
<a href="#">Precipitation</a>	<a href="#">Cloud</a>	<a href="#">Water Vapor</a>
<a href="#">Aerosol</a>	<a href="#">Atmospheric Boundary Layer</a>	<a href="#">Radiation Balance</a>
Cryosphere		
<a href="#">Sea Ice</a>	<a href="#">Snowpack</a>	<a href="#">Ice</a>
Terrestrial		
<a href="#">Soil Moisture</a>	<a href="#">Snowpack</a>	<a href="#">Land Cover</a>
<a href="#">Radiance/ Reflectance</a>	<a href="#">Atmospheric Boundary Layer</a>	<a href="#">Land Surface Temperature</a>
<a href="#">Vegetation</a>	<a href="#">Fire</a>	
Ocean		
<a href="#">Sea Surface Temperature</a>	<a href="#">Sea Surface Wind</a>	<a href="#">Ocean color</a>
Other		
<a href="#">Radiance/ Brightness temperature</a>	<a href="#">Radar</a>	<a href="#">Count Value</a>
<a href="#">Geometric Information</a>	<a href="#">Environment Auxiliary</a>	

## 6.2. Spacecrafts/sensors operational information

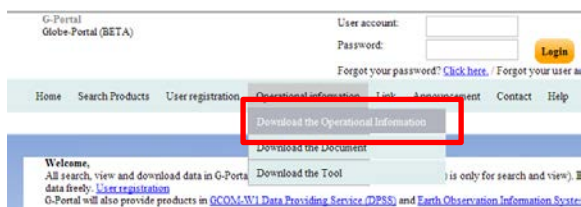
Information that JAXA requires to operate its spacecrafts/sensors is available as data called Operational Information that may be valuable to users that are using products. Feel free to check this information when using products.

The provided Operational Information is as follows.

- Orbit information
- Quality information
- Missing information
- Orbit control information
- 2Line orbit element (TLE)
- Operational mode transition history
- Maneuver information

etc.

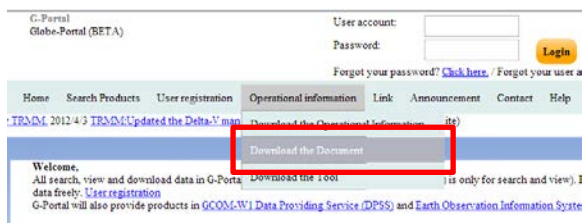
### 6.2.1. Check Operational Information



Click “Operational Information” -> “Spacecrafts/sensors Information”. You will be able to check operational information related to spacecrafts/sensors.

## 6.3. Download documents

Product format descriptions, algorithm descriptions and other generation documentation is provided for each mission.

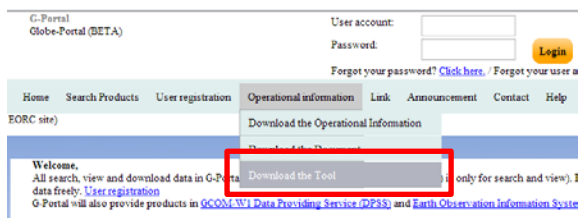


Click “Operational Information” -> “Related Documents” from the menu. A window where you can browse and download documents will be displayed.



## 6.4. Download the tool kit

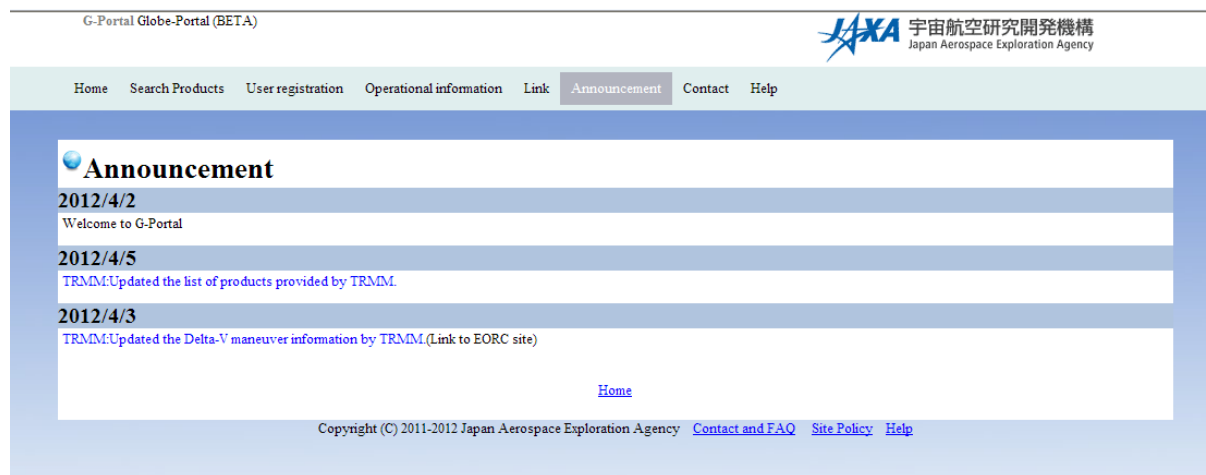
A range of tools are available to help utilize the available products. Please forward any enquiries such as usage methods or operating environment directly to the tool developer.



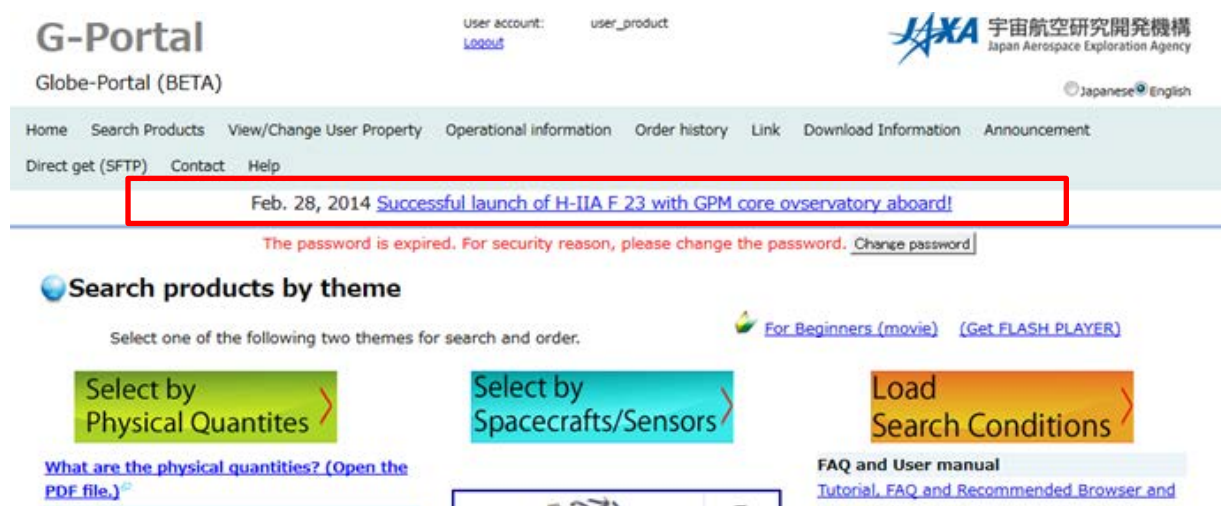
Click “Operational Information” -> “Tool Kit” from the menu. A window where you can download the tool kit will be displayed.

## 6.5. Check announcements

Click “Announcements” from the menu to check information on announcements such as notifications from the G-Portal system.



Note that some announcements are also displayed at the top of the Welcome page.



## **7. Help and Contact**

### **7.1. Contact**

Click “Contact” from the menu. Information on submitted inquiries about the system will be displayed.

### **7.2. Help**

Click “Help” from the menu. The help window will be displayed, allowing you to check the FAQ of the system and information about the operating environment. You can also download the user manual from here.

## 8. Other References

### 8.1. Recommended browsers

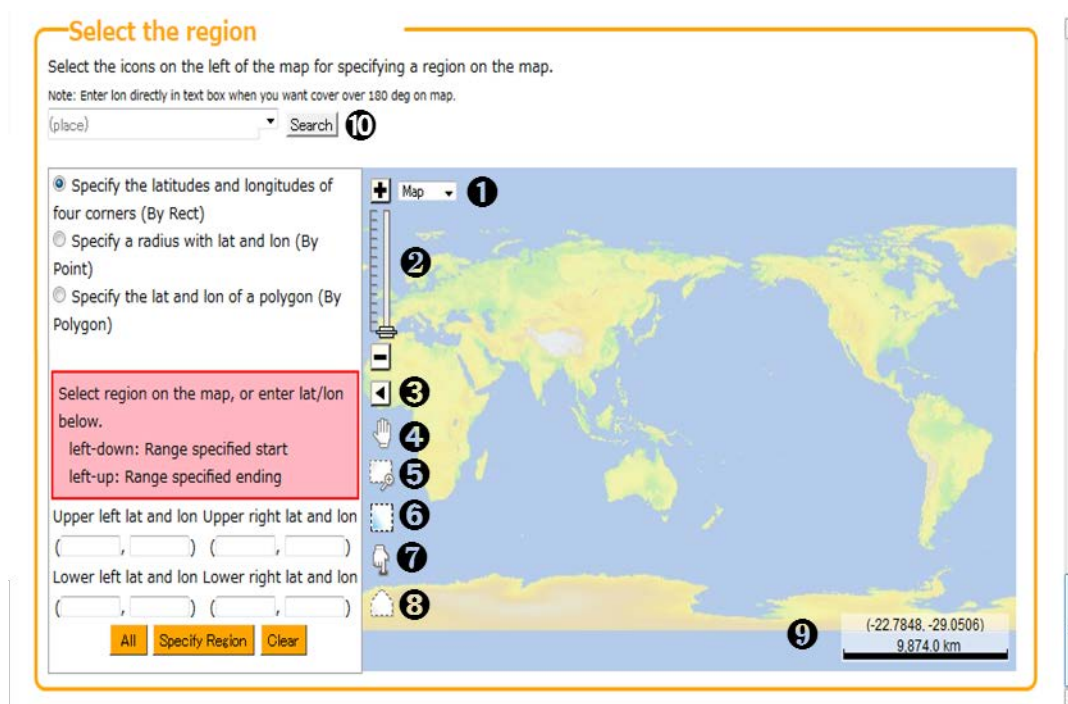
The following browsers are recommended to ensure that G-Portal functions smoothly and properly. Recommended browsers are those that have already been checked as functioning properly. Some windows may not be displayed properly when using the system on browsers other than those that are recommended.

JavaScript	This site uses content that operates on JavaScript. To use this service, Javascript must be enabled in your browser.
------------	--

OS	Browser	Version
Windows 7	Internet Explorer	8,9,10[Recommended], 11 [Recommended]
	FireFox	26 [Recommended]
	Chrome	18
LinuxRHEL6.1	FireFox	11
Mac OS X 10.5	Safari	5
Mac OS X 10.6	Safari	5.1
Mac OS X 10.7	Safari	5.1
	FireFox	11

## Appendix 1 Map Operations

This section outlines the map operations that can be used in the enter search conditions window.



### 1) Switch map view/satellite view



The view can be changed from map view to satellite view.

### 2) Change scale



Click the “+” symbol to zoom into and display the map at one larger scale. Click the “-” symbol to zoom out and display the map at one smaller scale.

Move the slider up and down to display the map at a scale of your own choice. If you have a mouse with a mouse wheel, you can also use the mouse wheel to change the zoom scale.

### 3) Return to the previous map view



Return to the previous map view.

### 4) Move



Move the display region of the map.

5) Marquee zoom



Click and drag over the region to display an enlarged view of the selected region.

6) Specify search region (rectangle)



Click the icon on the left to specify the search region with a rectangle.

7) Specify search region (point selection)



Click the icon on the left to specify the search region with a point and circle.

8) Specify search region (polygon)



Click the icon on the left to specify the search region with a polygon.

9) Map scale



Displays the scale of the currently displayed map.

10) Place search



Enter the place name and click "Search" button, then map focuses onto the coordinate of the place. ( In case of partial match search, select the place name from displayed candidate list(max. 100 candidates))

## Appendix 2 Specify Observation Region

There are three selection methods for the observation range as follows:

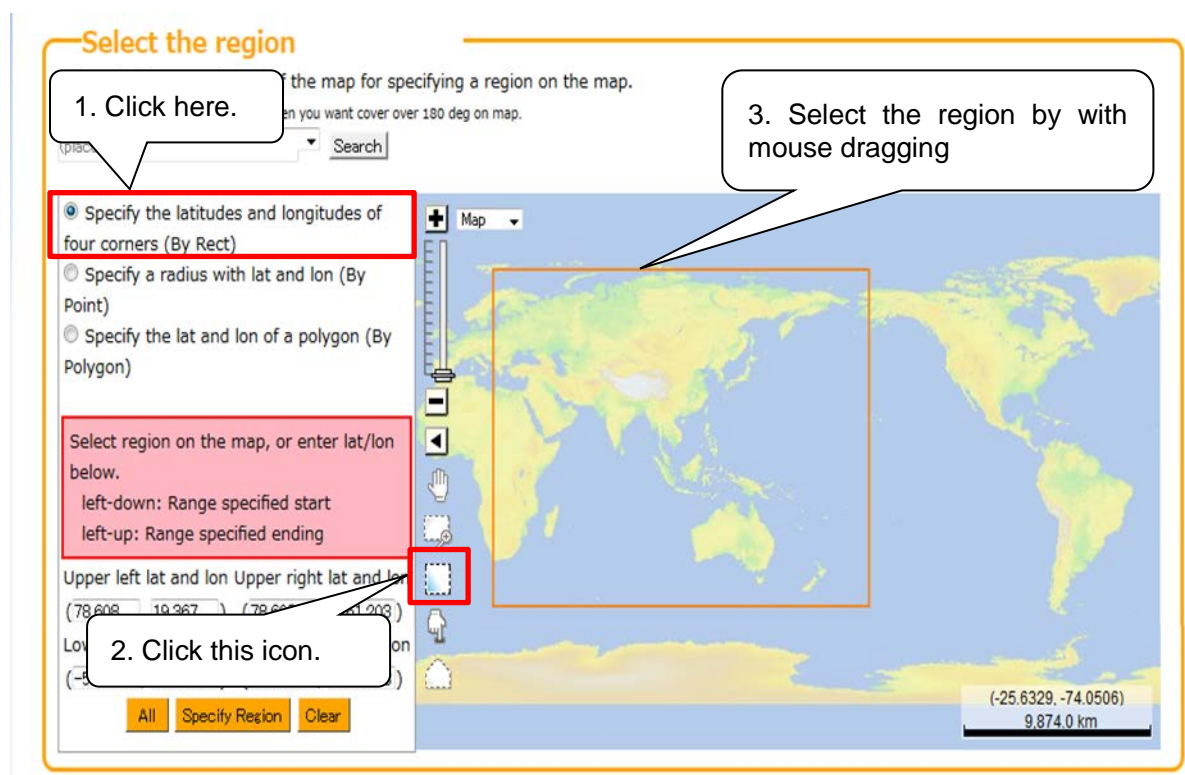
- Specify the latitudes and longitudes of four corners Appendix 2-1
- Specify a circle with point and radius Appendix 2-2
- Specify the latitudes and longitudes of a polygon Appendix 2-3

Each of these methods allows a range to be specified from the map or by entering values. After a region has been specified on the map, the values can be changed to correct the search region.

See “Appendix 4 Filter Search Conditions” for using a tile map search.

### Appendix 2-1 Banding box

#### (1) Specify from the map



1) Click the “Specify the latitudes and longitudes of four corners” option. Text boxes that allow the latitudes and longitudes of the four corners to be entered will be displayed.

2) Click the “Rectangle selection icon on the map to select a region on the map by dragging a square.

3) Drag select a rectangle. Clicking a rectangle on the map will automatically display the

latitudes and longitudes in the text boxes. The values in the text boxes will be specified as the region to use as the search conditions.

※A click of "Clear" will clear the value inputted into the text box and selection on the map.  
(About "Clear", it is the same subsequent "Appendix 2-1 Specify a circle in a point/radius" and "Appendix 2-3 Specify at polygonal latitude longitude".)

## (2) Specify with values

1. Click here.

2. Enter the latitude and longitude.

3. Click "Specify Region".

☒ Specify the latitudes and longitudes of four corners (By Rect)  
☐ Specify a radius with lat and lon (By Point)  
☐ Specify the lat and lon of a polygon (By Polygon)

Select region on the map, or enter lat/lon below.

Upper left lat and lon (75.190, 9.684)	Upper right lat and lon (75.190, 75.190)
Lower left lat and lon (-39.304, 9.684)	Lower right lat and lon (-39.304, 75.190)

All Specify Region Clear

1) Click the "Specify the latitudes and longitudes of four corners" option. Text boxes that allow the latitudes and longitudes of the four corners to be entered will be displayed.

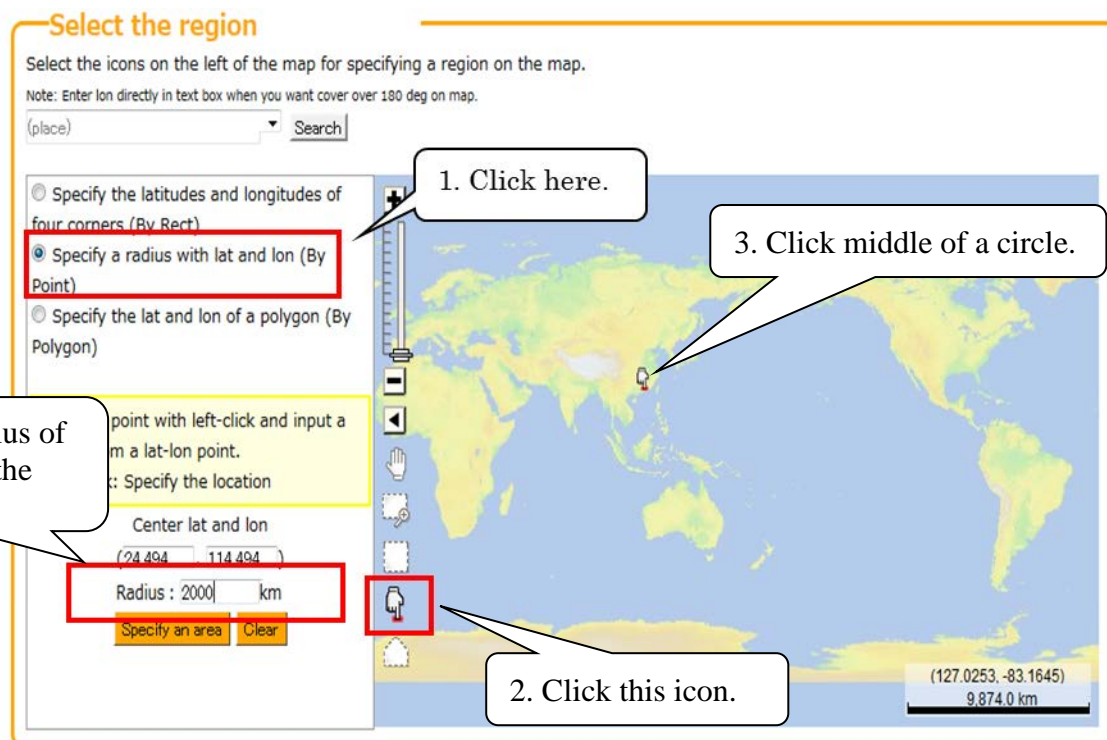
2) Enter the latitudes and longitudes of four corners. As you enter values, the values of other text boxes will automatically be updated so that a rectangle is formed (e.g.: entering the latitude of the top left corner will automatically enter the same value for the top right corner).

3) Click the "Specify region" button. The values in the text boxes will be specified as the region to use as the search conditions.



## Appendix 2-2 Circle

### (1) Specify from the map



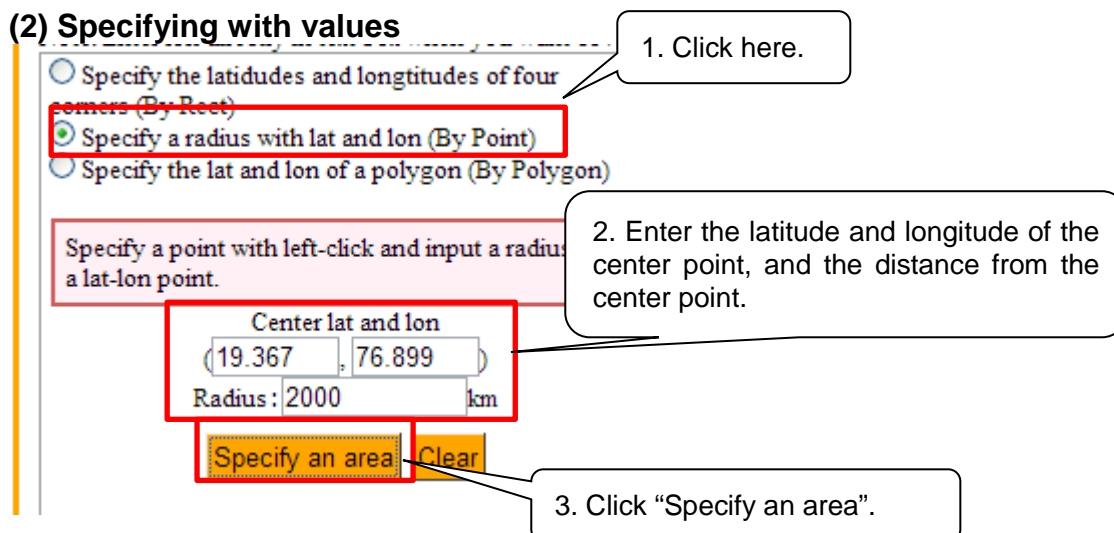
1) Click the “Specify a circle with point and radius” option. Text boxes that allow the region of the circle to be entered will be displayed.

2) Click the “Point selection icon” on the map to specify the latitude and longitude of the center point.

3) Click the center point on the map with the mouse to specify the latitude and longitude of the center point. This will automatically display the latitude and longitude in the text boxes.

4) Enter the radius of the circle from the center point. A circle region will be displayed on the map with the center point specified on the map in 3) and the distance entered as the radius. The values in the text boxes will be specified as the region to use as the search conditions.

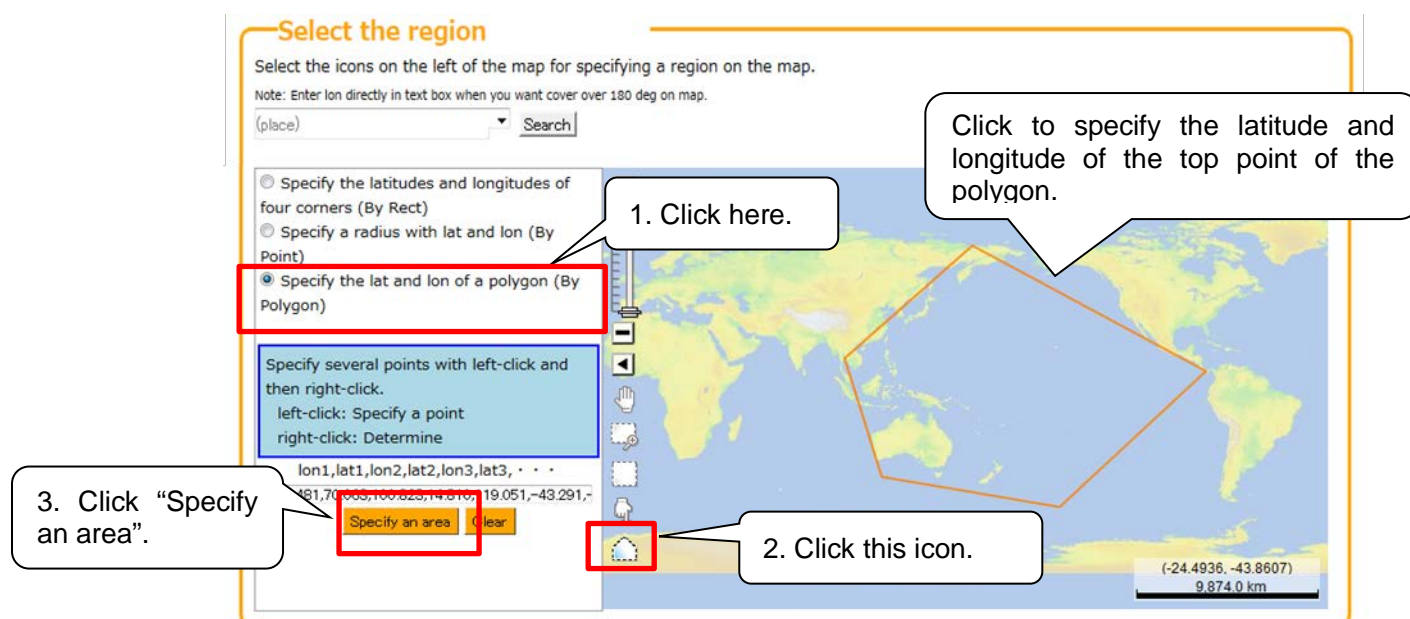
### (2) Specifying with values



- 1) Click the "Specify a circle with point and radius" option. Text boxes that allow the region of the circle to be entered will be displayed.
- 2) Enter the latitude and longitude of the center point, and the distance from the center point.
- 3) Click the "Specify region" button. The values in the text boxes will be specified as the region to use as the search conditions.

## Appendix 2-3 Polygon

### (1) Specify from the map



- 1) Click the "Specify the latitudes and longitudes of a polygon" option. Text boxes that allow the latitudes and longitudes of a polygon to be entered will be displayed.
  - 2) Click the "Polygon selection icon" on the map to select a region on the map by dragging a polygon.
  - 3) Click the left mouse button to specify the latitude and longitude of the top point of the polygon. Click the right mouse button to specify the final point of the polygon and close the perimeter. Specifying the polygon on the map will automatically display the latitudes and longitudes in the text boxes.
- \* The following will generate an error when specifying the polygon, so try again.
- If lines on the map intersect
  - If there are less than two points specified.
- 4) Click the "Specify region" button. The values in the text box will be specified as the region to use as the search conditions.

## (2) Specify with values

☐ Specify the latitudes and longitudes of four corners (By Rect)

☐ Specify a radius with lat and lon (By Point)

☒ Specify the lat and lon of a polygon (By Polygon)

Specify several points with left-click and then right-click.

lon1,lat1,lon2,lat2,lon3,lat3, ...

95.127,3.418,111.646,-52.975,-157.785,-53.544,-130

Specify an area Clear

1. Click here.

2. Enter the latitudes and longitudes of the polygon.

3. Click "Specify an area".

- 1) Click the "Specify the latitudes and longitudes of a polygon" option. Text boxes that allow the latitudes and longitudes of a polygon to be entered will be displayed.
- 2) Enter the latitudes and longitudes of the polygon.
- 3) Click the "Specify region" button. The values in the text box will be specified as the region to use as the search conditions.

## Appendix 3 Specify Observation Period

Specify the period to search. There are two selection methods for the period as follows:

- Specify period
- Specify season

Each of these methods allows the period range to be specified by (1) Entering text, (2) Entering values from the calendar icon, or (3) Entering values from the observation period bar chart.

### Appendix 3-1 Specify period

#### (1) Enter text

The screenshot shows the 'Specify Period' form. A red box highlights the 'Specify Periods' radio button, with a callout '1. Click here.' pointing to it. Another red box highlights the first date input field '2014/03/25', with a callout '2. Enter the start date and end date of the observation.' pointing to it. The form includes five rows for specifying periods, each with a color-coded bar, a date range, and a 'Clear' button. Below the rows is a timeline bar from 1985 to 2015.

1) Click the "Specify period" option. Text boxes that allow the period to be specified by entering observation start date and end date will be displayed (max 5 periods). Today's date is set to the first observation start date and end date as default.

2) Enter the observation start date and end date into the text boxes to configure the search conditions.

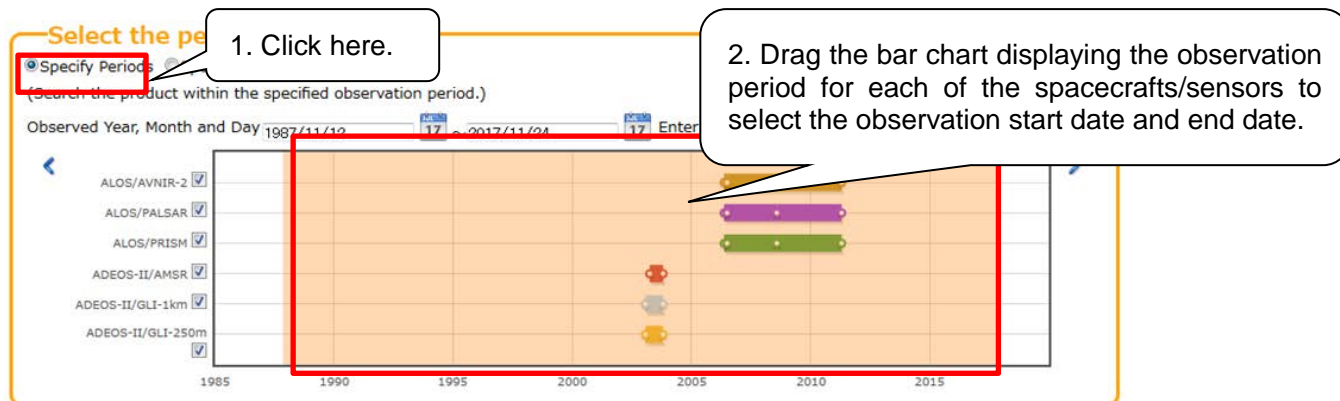
#### (2) Enter values from the calendar icon

The screenshot shows the 'Specify Period' form. A red box highlights the 'Specify Periods' radio button, with a callout '1. Click here.' pointing to it. Another red box highlights the first date input field '2014/03/25', with a callout '2. Click the calendar icon and select the observation start date and end date.' pointing to it. The form includes five rows for specifying periods, each with a color-coded bar, a date range, and a 'Clear' button. Below the rows is a timeline bar from 1985 to 2015.

1) Click the "Specify period" option. Text boxes that allow the period to be specified by entering observation start date and end date will be displayed. Five periods can be specified at the maximum.

2) Click the calendar icon on the right side of each text box. Select the observation start date and end date from the displayed calendar. The date will be entered into the text boxes to configure the search conditions.

### (3) Enter values from the observation period bar chart

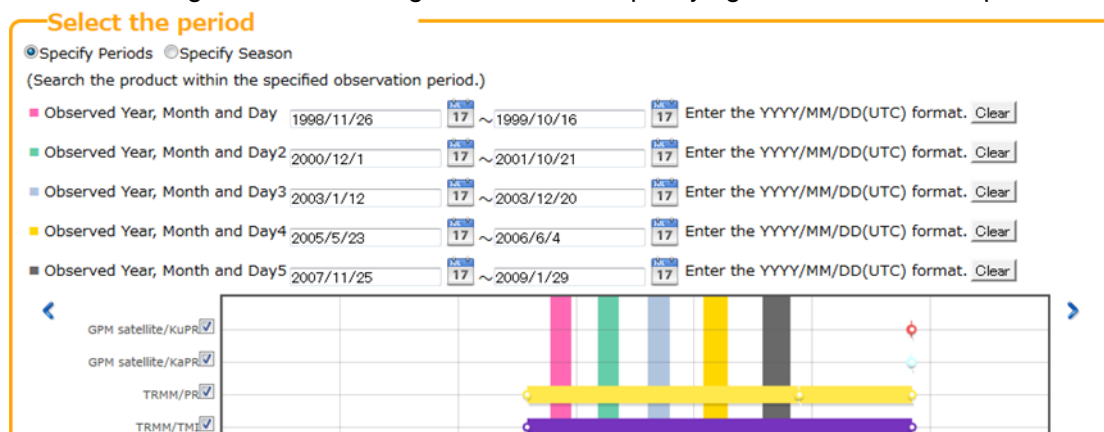


1) Click the “Specify period” option. Text boxes that allow the period to be specified by entering observation start date and end date will be displayed. Five periods can be specified at the maximum.

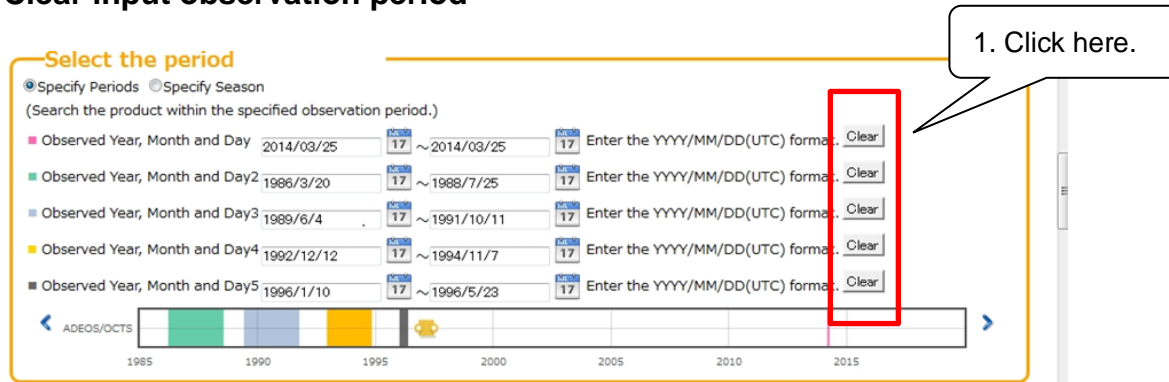
2) Drag the bar chart displaying the observation period for each of the spacecraft/sensors to select the observation start date and end date. The selected dates will be entered into the text boxes to configure the search conditions.

※The bar charts can be scaled when the cursor is scrolled over them. The arrow for moving a display period is displayed on the right and left of a bar chart.

The following is a window image at the time of specifying a maximum of five periods.



### (4) Clear input observation period



1) Click the “Clear” button. Clear the inputted observation start date and end date.

## Appendix 3-2 Specify season

### (1) Enter text

The screenshot shows the 'Specify Season' interface. At the top, there are two radio buttons: 'Specify Period' and 'Specify Season'. The 'Specify Season' option is selected. Below this, there is a text box for 'Observed Month and Day' containing '01/30' and a calendar icon. To its right is a text box for 'Observed Year' containing '1998' and a calendar icon. Below these are three horizontal bar charts for 'TRMM/COMB' (red), 'TRMM/TMI' (blue), and 'TRMM/PR' (yellow). The x-axis represents years from 1996 to 2018. Callout 1 points to the 'Specify Season' radio button. Callout 2 points to the 'Observed Month and Day' text box.

1) Click the “Specify season” option. Text boxes that allow the season to be specified by entering observation start month/date and end month/date, and the observation start year and end year will be displayed.

2) Enter the observation start month/date and end month/date, and the observation start year and end year into the text boxes to configure the search conditions.

※The bar charts can be scaled when the cursor is scrolled over them. The arrow for moving a display period is displayed on the right and left of a bar chart.

### (2) Enter values from the calendar icon

This screenshot is identical to the one above, showing the 'Specify Season' interface. Callout 1 points to the 'Specify Season' radio button. Callout 2 points to the calendar icon on the right side of the 'Observed Month and Day' text box.

1) Click the “Specify season” option. Text boxes that allow the period to be specified by entering observation start month/date and end month/date, and the observation start year and end year will be displayed.

2) Click the calendar icon on the right side of each text box. Select the observation start date and end date, and the observation start year and end year from the displayed calendar. The date will be entered into the text boxes to configure the search conditions.

### (3) Enter values from the observation period bar chart

The screenshot shows a web interface for specifying observation periods. At the top, there are two radio buttons: "Specify Period" and "Specify Season". The "Specify Season" option is selected and highlighted with a red box and a callout "1. Click here." Below these are text boxes for "Observed Month and Day" (01/30 ~ 05/11) and "Observed Year" (1998 ~ 2009). A callout "3. Enter the start and end year of the observation." points to the year input fields. Below the text boxes is a bar chart with three horizontal bars representing different spacecraft/sensors: TRMM/COMB (red), TRMM/TMI (blue), and TRMM/PR (yellow). The x-axis shows years from 1996 to 2018. A callout "2. Drag the bar chart to select the observation start month/date and end month/date." points to the bars. A red box highlights the entire bar chart area. A note "Enter the YYYY(UTC) format." is located near the year input fields.

1) Click the "Specify season" option. Text boxes that allow the period to be specified by entering observation start month/date and end month/date, and the observation start year and end year will be displayed.

2) Drag the bar chart displaying the observation period for each of the spacecrafts/sensors to select the observation start month/date and end month/date. The selected dates will be entered into the text boxes to configure the search conditions.

3) Specify the upper and lower limits of the observation year.



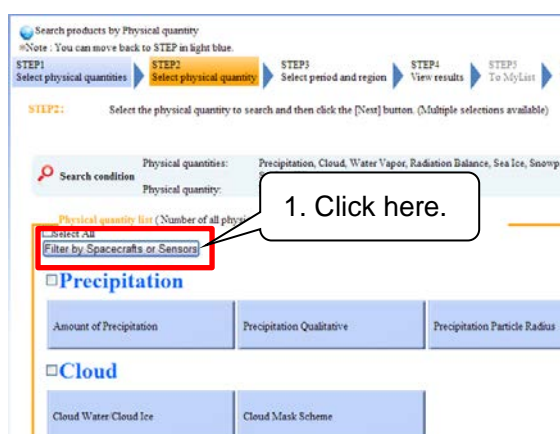
## Appendix 4 Filter Search Conditions

The displayed items can be filtered by a variety of methods. There are six methods to filter searches as follows:

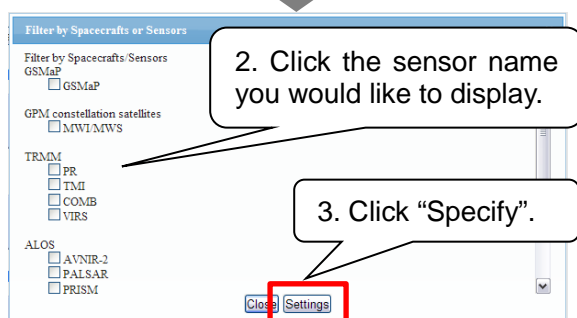
- Filter by spacecrafts/sensors when selecting physical quantities Appendix 4-1
- Filter by physical quantities when selecting products Appendix 4-2
- Filter by processing level when selecting products Appendix 4-3
- Filter by tile map when selecting spacecrafts/sensors Appendix 4-4
- Filter by spacecrafts/sensors on Home (Top) page Appendix 4-5
- Filter by spacecrafts/sensors on Period and Region Selection Window Appendix 4-6

### Appendix 4-1 Filter by spacecrafts/sensors

Physical quantities displayed in the Physical Quantity Selection window as the search conditions can be filtered by spacecrafts/sensors.



1) Click the “Filter by spacecrafts/sensors” button from the window that allows you to select physical quantities. A dialog box will be displayed allowing the physical quantities to be filtered.



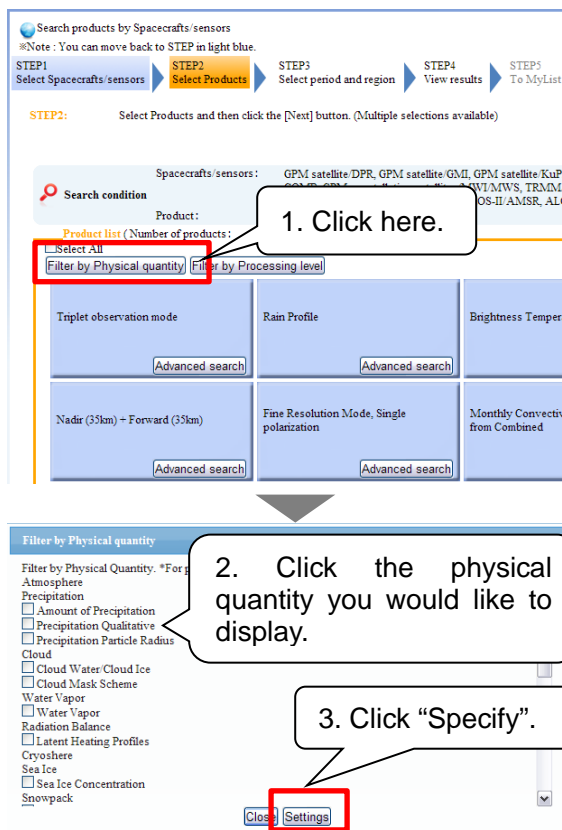
2) Click the name of the spacecrafts/sensors that you want to display.

3) Click the “Specify” button. Only the physical quantities observed by the spacecrafts/sensors clicked in 2) in the Physical Quantity Selection window will be displayed.



## Appendix 4-2 Filter by physical quantities

Products displayed in the Product Selection window as the search conditions can be filtered by physical quantities.



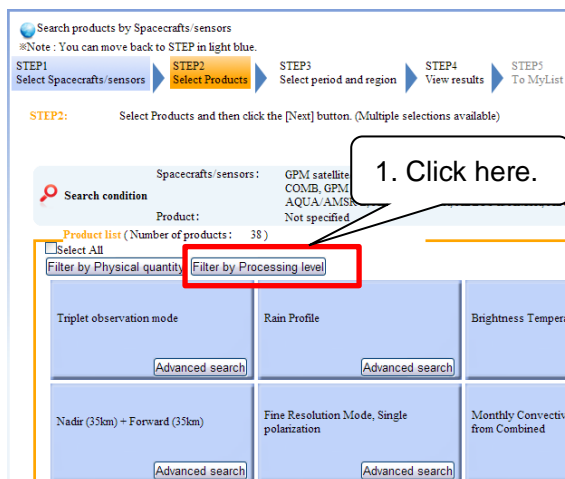
1) Click the “Filter by physical quantities” button from the Product Selection window. A dialog box will be displayed allowing the products to be filtered.

2) Click the name of the physical quantity that you want to display.

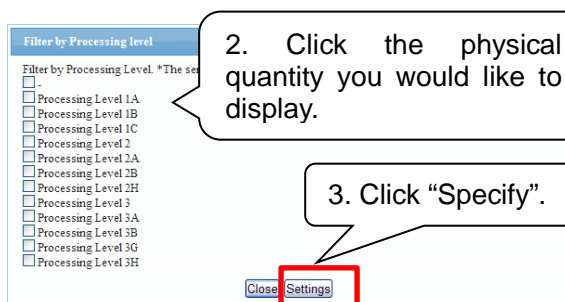
3) Click the “Specify” button. Only the products with the observed physical quantities clicked in 2) in the Product Selection window will be displayed.

## Appendix 4-3 Filter by processing level

Products displayed in the Product Selection window as the search conditions can be filtered by processing level.



1) Click the “Filter by processing level” button from the Product Selection window. A dialog box will be displayed allowing the products to be filtered.



2) Click the processing level that you want to display.

3) Click the “Specify” button. Only the products with the processing level clicked in 2) in the Product Selection window will be displayed.

## Appendix 4-4 Filter by tile map

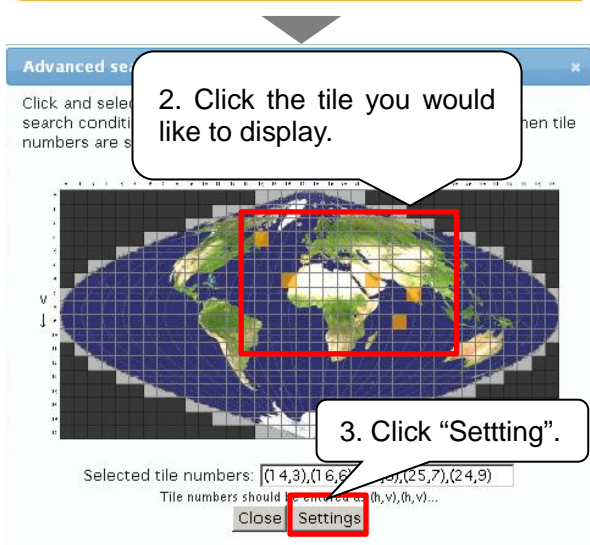
The product available to use tiled map in search can be filtered by tile number.

Choose "Select by Spacecrafts/Sensors" at STEP1, if you want to perform search using a tile map. When you choose "Select by Physical Quantities", you cannot search using a tile map.



1) Click the "Tile" button from the Product Selection window. A dialog box of tile map to set the tile number for filtering the search result will be displayed.

(Notes) A product name is a sample.



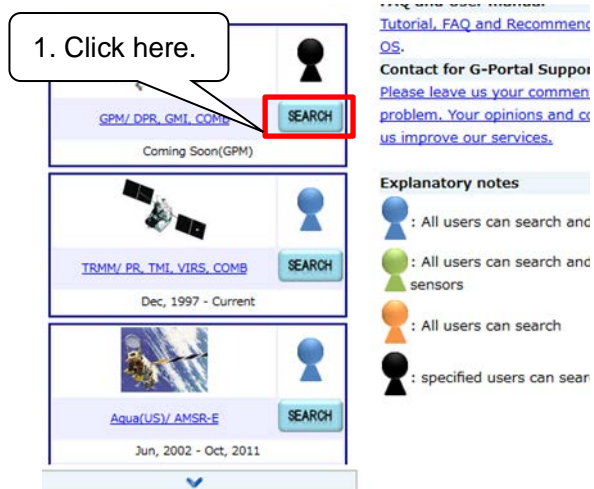
2) Click the tile that you want to display, then the coordinates of the tile selected will be displayed on the text box "Selected tile number". When you want to cancel, please click the tile again.

\* You can write the coordinates directly on the text box "Selected tile number".

3) Click the "Setting" button. The products with the tile number that set in 2) will be search target.

## Appendix 4-5 Filter by spacecrafts / sensors on Home (Top) page

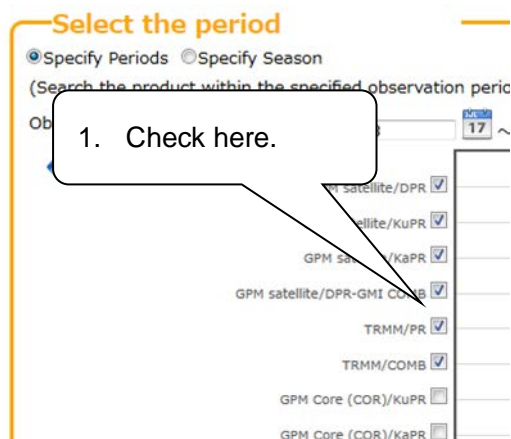
You can search specified spacecraft / sensor on Home (Top) page.



1) Click "SEARCH" button which is on the right-side of the spacecraft / sensor link on Home (Top) page, It changes on Product Selection window directly, where spacecrafts/sensors is filtered to an applicable spacecrafts/sensors.

## Appendix 4-6 Filter by spacecraft/sensors on Period and Region Selection Window

You can filter specified spacecraft / sensor on Period and Region Selection Window

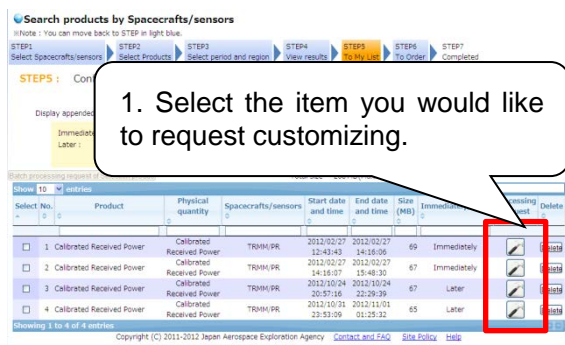


1) spacecraft/sensors can be filtered by checking the check box which is on the right of spacecraft/sensors name display in the period selected area of the window which specifies period and area.

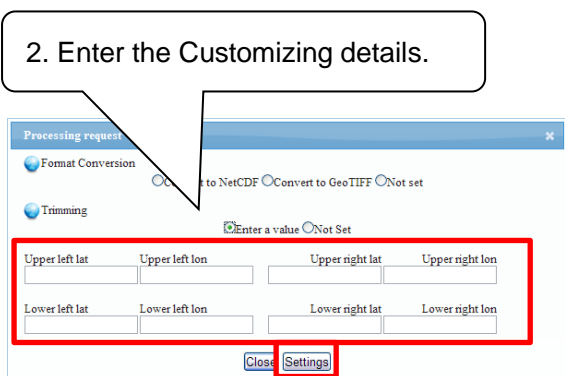
## Appendix 5 Request for customizing

Customizing of products can be requested before submitting an order. Customizing details vary with each type of product.

### Appendix 5-1 Request customizing for each product



1) Click the "Request Processing" button from the product list on the My List window. A dialog box for configuring the customizing details will be displayed. Customizing details vary with each type of product.



2) Enter the Customizing details as "Processing request".

3) Click the "Settings" button to request customizing for the product.

3. Click "Settings".

You can check the value of customizing at STEP6 "To Order", or order history by clicking on "Order, Customize" icon.

Depending on the kind of product, you can request to shift and cut out product as customizing.

For the product which can request "shift" or "cutout", "Shift/Cutout" button is displayed on a dialog for customizing.

Order, Customize

Satellite : TEST-Sat  
Sensor : Scene  
The Date of Observation : 2007/09/03  
Start

Format Conversion  
Select a format below

☐ HDF5  
☐ NetCDF  
☐ GeoTIFF  
☐ None

☒ Shift/Cutout ☐ YES ☐ NO

Close Settings

1) Select "Yes" in the "Shift/Cutout", then the "Shift/Cutout" button will be displayed.

Order, Customize

Satellite : TEST-Sat  
Sensor : Scene  
The Date of Observation : 2007/09/03  
Start

Format Conversion  
Select a format below

☐ HDF5  
☐ NetCDF  
☐ GeoTIFF  
☐ None

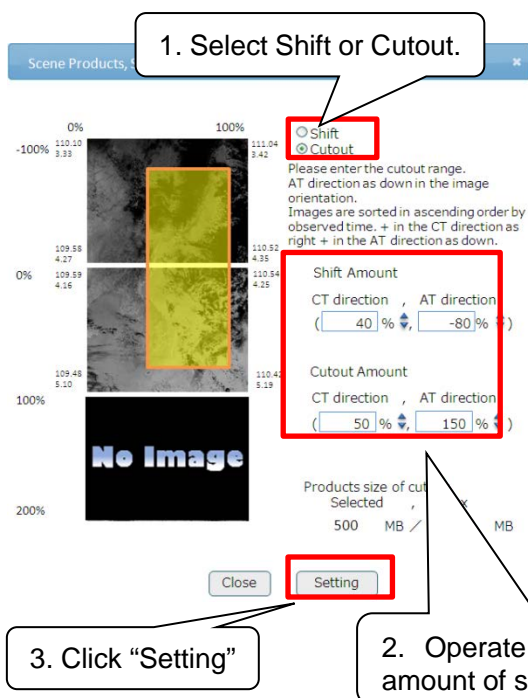
☒ Shift/Cutout ☐ YES ☐ NO

Shift / Cutout  
Shift amount(H direction: 0%, V direction: 0%)  
Cutout amount(width: 100%, height: 100%)

Close Settings

2) Click the "Shift/Cutout" button, it will be displayed a dialog for setting detail of "shift" and "cutout".

### <For Scene Products>

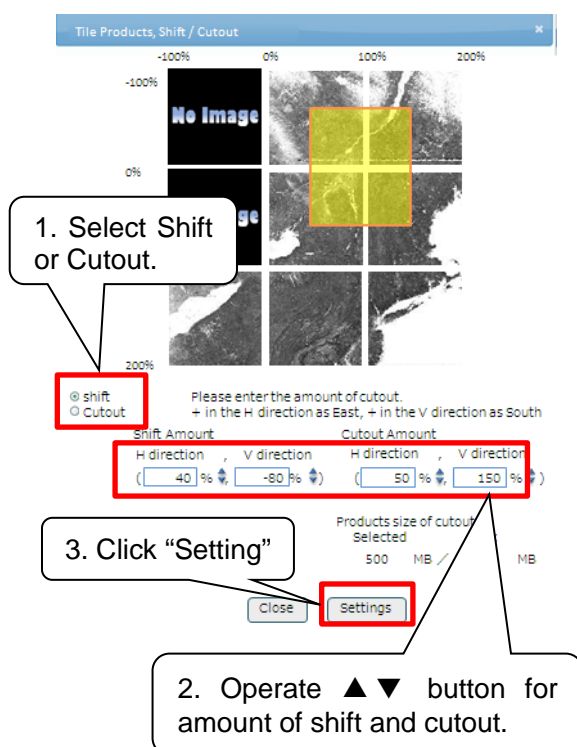


- 1) Select "Shift" or "Cutout".
- 2) Operate control button (▲▼) to set amount of shift/cutout. The selected range is displayed on a browse image.
- 3) Click "Setting". The amount of shift/cutout is determined, and it returns to the dialog for configuring the customizing.

#### (Notes)

The selected range is displayed on "browse image" in 2). As for the product without a browse image, "No Image" is displayed.

### <For Tile Products>



- 1) Select "Shift" or "Cutout".
- 2) Operate control button (▲▼) to set amount of shift/cutout. The selected range is displayed on a browse image.
- 3) Click "Setting". The amount of shift/cutout is determined, and it returns to the dialog for configuring the customizing.

#### (Notes)

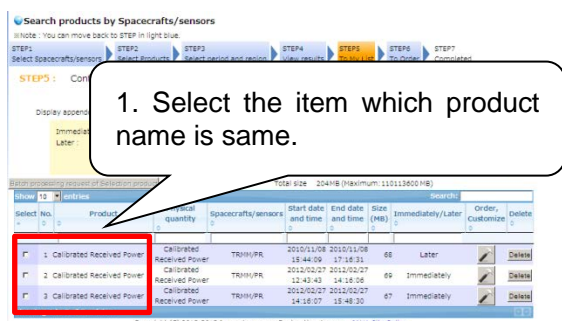
The selected range is displayed on "browse image" in 2). As for the product without a browse image, "No Image" is displayed. Moreover, "No Data" is displayed there when a surrounding product is not in G-Portal.

A black image is displayed when it is the range where cannot be selected (outside area of the earth).

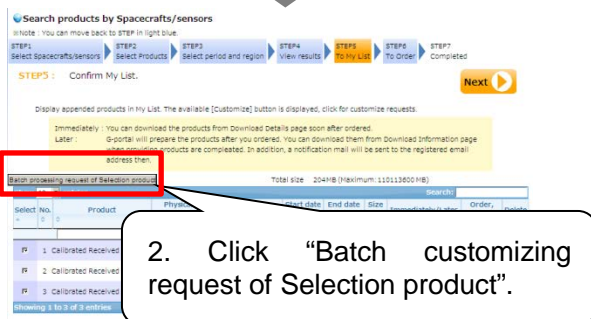


## Appendix 5-2 Request customizing details for multiple products

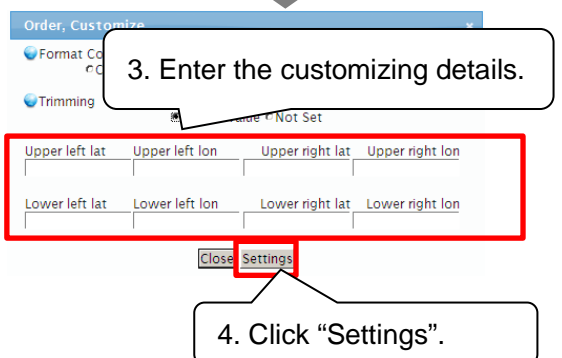
Batch customizing details can be requested for products with the same product name (with the same customizing detail configuration items).



1) Click multiple products with the same name and then the “Specify batch customizing of multiple products” button at the top become clickable.



2) Click the “Batch customizing request of Selection product” button. A dialog box for configuring the customizing details will be displayed.



3) Enter the customizing details as “Processing request”.

4) Click the “Settings” button to request customizing for the selected products.

(Note)

When performing shift/cutout by batch, a shift/cutout range check is carried out with each product.

Since the following messages are displayed when the product unable to request a shift/cutout with the range you set is contained, please set up the product individually.

the Shift/Cutout range you have selected cannot be applied to the products below; Shift/Cutout range should be individually selected  
No.X, No.Y...

## Appendix 6 Select the interface Language (Japanese/English)

Switch between Japanese and English displays from the Welcome page. The initial language display will be English if the OS of the computer you are using is in English or language other than Japanese, and Japanese if it is in Japanese.



Click the option at the top right of the Welcome page to select languages.

## Appendix 7 Available Products

### Appendix 7-1 List of physical quantity products

No.	Category	Group	Physical Quantity Name	Note
1	Atmosphere	Precipitation	Amount of Precipitation	
2			Precipitation Qualitative	
3			Precipitation Particle Radius	
4		Cloud	Cloud Water/Cloud Ice	
5			Cloud Mask Scheme	
6			Cloud Particle Radius/Shape	
7			Cloud Top Profiles (Temperature/Pressure/Height)	
8			Cloud Amount	
9			Optical Thickness	
10		Water Vapor	Water Vapor	
11		Aerosol	Optical Thickness	
12			Aerosol Particle Radius	
12			Aerosol Extinction Coefficient	
13		Radiation Balance	Latent Heating Profiles	
14	Cryosphere	Sea Ice	Sea Ice Concentration	
15			Snow Grain Size	
16			Surface Temperature	
17		Snow pack	Snow Depth	
18			Surface Temperature	
19			Snow Grain Size	
20			Snow Coverage Distribution	
21	Terrestrial	Soil Moisture	Soil Moisture.	
22		Snowpack	Snow Coverage Distribution	
23			Surface Temperature	
24			Snow Grain Size	
25			Snow Depth	
26		Radiance/Reflectance	Radiance/Reflectance	
27		Vegetation	Vegetation Parameters	
28	Ocean	Sea Surface Temperature	Sea Surface Temperature	
29		Sea Surface Wind	Sea Surface Wind Speed	
30		Ocean Color	Normalized Water-Leaving Radiance	
31			Chlorophyll-a Concentration	
32			Suspended Solid Concentration	
33			Colored Dissolved Organic Matter	

No.	Category	Group	Physical Quantity Name	Note
34	Other	Radiance/Brightness temperature	Brightness Temperature	
35			Radiance	
36			Radiance/Reflectance	
37		Radar	Calibrated Received Power	
38			Radar Reflectivity	
39			Backscattering cross section	
40		Geometric Information	Geometric Information	

Available products will continue to be expanded

## Appendix 7-2 List of spacecraft/sensor product names

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
1	TRMM	PR	Calibrated Received Power	
2			Radar Reflectivity	
3			Rain Profile	
4			Monthly Statistics of Rain Parameter	
5			Monthly Rain Rate using a Statistical Method	
6			PR Latent Heating Profiles [quasi-standard]	
7			Rain Profile	
8			Monthly Oceanic Rainfall	
9			Monthly TMI Profiling	
10			Radiance	
11		TMI	Normalized Radar Surface Cross Section	
12			PR Gridded Latent Heating Profiles	
13			Rain Profile	
14			Monthly Rainfall	
15		VIRS	PR Qualitative	
16		COMB	PR Monthly Latent Heating Profiles	
17			Brightness Temperature	
18			TRMM & IR 3hourly Rainfall	
19			TRMM & Other Sources Monthly Rainfall	
20			Convective Stratiform Heating[quasi-standard]	
21			Gridded Orbital Convective Stratiform Heating from Combined	
22			Monthly Convective Stratiform Heating from Combined	
23	ALOS	PRISM	Triplet observation mode	Search only
24			Nadir (70km) + Backward (35km)	Search only
25			Nadir (70km)	Search only
26			Nadir (35km) + Forward (35km)	Search only
27			Nadir (35km) + Backward (35km)	Search only
28			Forward (35km) + Backward (35km)	Search only
29			Nadir (35km)	Search only
30			Forward (35km)	Search only
31			Backward (35km)	Search only
32		AVNIR-2	Observation	Search only
33		PALSAR	Fine Resolution Mode, Single polarization	Search only
34			Fine Resolution Mode, dual polarization	Search only
35			Wide Area Observation Mode (Burst mode 1)	Search only
36			Wide Area Observation Mode (Burst mode 2)	Search only
37			Direct Downlink Mode	Search only
38			Polarimetry Mode	Search only

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
39	AQUA	AMSR-E	L1A	
40			L1B	
41			Water Vapor	
42			Cloud Liquid Water	
43			Amount of Precipitation	
44			Sea Surface Wind Speed	
45			Sea Surface Temperature	
46			Ice Concentration	
47			Soil Moisture	
48			Snow Water Equivalence	
49			Water Vapor	
50			Cloud Liquid Water	
51			Amount of Precipitation	
52			Sea Surface Wind Speed	
53			Sea Surface Temperature	
54			Ice Concentration	
55			Soil Moisture	
56			Snow Water Equivalence	
57			Brightness Temperature	
58	ADEOS-II	AMSR	L1A	
59			L1B	
60			Water Vapor	
61			Cloud Liquid Water	
62			Amount of Precipitation	
63			Sea Surface Wind Speed	
64			Sea Surface Temperature	
65			Ice Concentration	
66			Soil Moisture	
67			Snow Water Equivalence	
68			Water Vapor	
69			Cloud Liquid Water	
70			Amount of Precipitation	
71			Sea Surface Wind Speed	
72			Sea Surface Temperature	
73			Ice Concentration	
74			Soil Moisture	
75			Snow Water Equivalence	
76			Brightness Temperature	
77		GLI	Visible and near infrared	
78			Short-wavelength infrared	
79			Middle and thermal infrared	
80			Calibration data	
81			Visible and near infrared	
82			Short-wavelength infrared	
83			Middle and thermal infrared	
84			SLPT	
85			Aerosol Angstrom Exponent	
86			Aerosol Optical Thickness	
87			Cloud fraction	
88			Cloud Effective Particle Radius of water cloud by reflection method	

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
89			Cloud Effective Particle Radius of ice cloud by emission method	
90			Cloud Optical Thickness of water cloud by reflection method	
91			Cloud Optical Thickness of ice cloud by reflection method	
92			Cloud Optical Thickness of ice cloud by emission method	
93			Cloud Top Temperature of water cloud by reflection method	
94			Cloud Top Temperature of ice cloud by emission method	
95			Cloud Top Height of water cloud by emission method	
96			Cloud Liquid Water Path of water cloud by reflection method	
97			Atmospheric Correction	
98			In-water Particles	
99			Sea Surface Temperature	
100			Vegetation Index	
101			Precise Geometric Corrected Parameter	
102			Atmospheric Corrected Data For Land And Cryosphere	
103			Snow Property	
104			Ocean and Atmosphere	
105			Land and Cryosphere	
106			Aerosol Angstrom Exponent	
107			Aerosol Optical Thickness	
108			Cloud fraction	
109			Cloud Effective Particle Radius of water cloud by reflection method	
110			Cloud Effective Particle Radius of ice cloud by emission method	
111			Cloud Optical Thickness of water cloud by reflection method	
112			Cloud Optical Thickness of ice cloud by reflection method	
113			Cloud Optical Thickness of ice cloud by emission method	
114			Cloud Top Temperature of water cloud by reflection method	
115			Cloud Top Temperature of ice cloud by emission method	
116			Cloud Top Height of water cloud by emission method	
117			Cloud Liquid Water Path of water cloud by reflection method	
118			Normalized water-leaving radiance	
119			Aerosol	
120			In-water Particles	
121			Sea Surface Temperature	

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
122			Snow grain size retrieved with 865nm band	
123			Snow impurities	
124			Snow grain size retrieved with 1640nm band	
125			Snow surface temperature	
126			Aerosol Angstrom Exponent	
127			Aerosol Optical Thickness	
128			Cloud fraction	
129			Cloud Effective Particle Radius of water cloud by reflection method	
130			Cloud Effective Particle Radius of ice cloud by emission method	
131			Cloud Optical Thickness of water cloud by reflection method	
132			Cloud Optical Thickness of ice cloud by reflection method	
133			Cloud Optical Thickness of ice cloud by emission method	
134			Cloud Top Temperature of water cloud by reflection method	
135			Cloud Top Temperature of ice cloud by emission method	
136			Cloud Top Height of water cloud by emission method	
137			Cloud Liquid Water Path of water cloud by reflection method	
138			Normalized water-leaving radiance	
139			Aerosol	
140			Chlorophyll-a	
141			Suspended solid weight	
142			Absorption of colored dissolved organic matter	
143			Attenuation coefficient at 490nm	
144			Sea Surface Temperature(day/night separately averaged)	
145			Sea Surface Temperature(add data averaged)	
146			Vegetation index	
147			Snow grain size retrieved with 865nm band	
148			Snow impurities	
149			Snow grain size retrieved with 1640nm band	
150			Snow surface temperature	
151			L1A	
152			L1B	
153			GLI-1Km	Order made
154			GLI-250m	Order made
155	GPM	KuPR	GPM KuPR L1B Received Power	Available soon
156			GPM KuPR L2 Precipitation	Available soon
157			GPM KuPR L1B Received Power	NRT (available soon)



No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
158		KaPR	GPM KaPR L1B Received Power	Available soon
159			GPM KaPR L2 Precipitation	Available soon
160			GPM KaPR L1B Received Power	NRT (available soon)
161		DPR	GPM DPR L2 Precipitation	Available soon
162			GPM DPR L2 Latent Heat	Available soon
163			GPM DPR L3 Latent Heat(Orbital)	Available soon
164			GPM DPR L3 Precipitation (Daily TEXT)	Available soon
165			GPM DPR L3 Precipitation (Daily HDF)	Available soon
166			GPM DPR L3 Precipitation (Monthly)	Available soon
167			GPM DPR L3 Latent Heat(Monthly)	Available soon
168			GPM DPR L2 Precipitation	NRT (available soon)
169			GPM KuPR L2 Precipitation	NRT (available soon)
170			GPM KaPR L2 Precipitation	NRT (available soon)
171		GMI	GPM GMI L1B Brightness Temperature	Available soon
172			GPM GMI L2Precipitation	Available soon
173			GPM GMI L3 Latent Heat(Orbital)	Available soon
174			GPM GMI L3Precipitation	Available soon
175			GPM GMI L3 Latent Heat(Monthly)	Available soon
176			GPM GMI L1C Inter- Calibrated Brightness Temperature	Available soon
177			GPM GMI L1B Brightness Temperature	NRT(available soon)
178			GPM GMI L2Precipitation	NRT(available soon)
179			GPM GMI L1C Inter-Calibrated Brightness Temperature	NRT(available soon)
180		DPR-GMI COMB	GPM Comb DPR/GMI L2 Precipitation	Available soon
181			GPM Comb DPR/GMIL3 Latent Heat(Orbital)	Available soon
182			GPM Comb DPR/GMI L3 Precipitation	Available soon
183			GPM Comb DPR/GMI L3 Latent Heat(Monthly)	Available soon
184			GPM Comb DPR/GMI L2 Precipitation	NRT (available soon)
185	GSMaP	GSMaP	GSMaP Precipitation(Hourly HDF5)	Global precipitation map (available soon)
186			GSMaP Precipitation(Hourly TEXT)	Global precipitation map (available soon)
187			GSMaP Precipitation(Monthly HDF5)	Global precipitation map (available soon)
188			GSMaP Precipitation(Hourly HDF)	Global precipitation map (NRT) (available soon)

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
189			GSMaP Precipitation(Hourly TEXT)	Global precipitation map (NRT) (available soon)
190	GPM Constellation	MWI/MWS	GPM Megha Tropiques/MADRAS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
191			GPM Megha Tropiques/SAPHIR L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
192			GPM GCOM-W1/AMS2-2 L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
193			GPM GCOM-W2/AMS2-2 L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
194			GPM GCOM-W3/AMS2-2 L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
195			GPM DMSP F16/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
196			GPM DMSP F17/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
197			GPM DMSP F18/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
198			GPM DMSP F19/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
199			GPM DMSP F20/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
200			GPM NOAA-15/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
201			GPM NOAA-15/AMSU-B L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
202			GPM NOAA-16/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
203			GPM NOAA-16/AMSU-B L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
204			GPM NOAA-17/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
205			GPM NOAA-17/AMSU-B L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
206			GPM NOAA-18/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
207			GPM NOAA-18/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
208			GPM NOAA-19/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
209			GPM NOAA-19/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
210			GPM NPP/ATMS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
211			GPM JPSS-1/ATMS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
212			GPM METOP-A/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
213			GPM METOP-A/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
214			GPM METOP-B/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
215			GPM METOP-B/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
216			GPM METOP-C/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
217			GPM METOP-C/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
218			GPM FY-3A/MWRI L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
219			GPM FY-3A/MWHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
220			GPM FY-3A/MWTS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
221			GPM FY-3B/MWRI L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
222			GPM FY-3B/MWHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
223			GPM FY-3B/MWTS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
224			GPM FY-3C/MWRI L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
225			GPM FY-3C/MWHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
226			GPM FY-3C/MWTS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
227			GPM FY-3D/MWRI L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
228			GPM FY-3D/MWHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
229			GPM FY-3D/MWTS L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
230			GPM TRMM/TMI L1C Inter-Calibrated Tb	GPM constellation spacecrafts (available soon)
231			GPM Megha Tropiques/MADRAS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
232			GPM Megha Tropiques/SAPHIR L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
233			GPM GCOM-W1/AMSR-2 L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
234			GPM GCOM-W2/AMSR-2 L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
235			GPM GCOM-W3/AMSR-2 L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
236			GPM DMSP F16/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
237			GPM DMSP F17/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
238			GPM DMSP F18/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
239			GPM DMSP F19/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
240			GPM DMSP F20/SSMIS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
241			GPM NOAA-15/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
242			GPM NOAA-15/AMSU-B L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
243			GPM NOAA-16/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
244			GPM NOAA-16/AMSU-B L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
245			GPM NOAA-17/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
246			GPM NOAA-17/AMSU-B L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
247			GPM NOAA-18/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
248			GPM NOAA-18/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
249			GPM NOAA-19/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
250			GPM NOAA-19/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
251			GPM NPP/ATMS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
252			GPM JPSS-1/ATMS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
253			GPM METOP-A/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
254			GPM METOP-A/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
255			GPM METOP-B/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
256			GPM METOP-B/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
257			GPM METOP-C/AMSU-A L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
258			GPM METOP-C/MHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
259			GPM FY-3A/MWRI L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
260			GPM FY-3A/MWHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
261			GPM FY-3A/MWTS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
262			GPM FY-3B/MWRI L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
263			GPM FY-3B/MWHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
264			GPM FY-3B/MWTS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
265			GPM FY-3C/MWRI L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
266			GPM FY-3C/MWHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
267			GPM FY-3C/MWTS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
268			GPM FY-3D/MWRI L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
269			GPM FY-3D/MWHS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
270			GPM FY-3D/MWTS L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
271			GPM TRMM/TMI L1C Inter-Calibrated Tb	GPM constellation spacecrafts(NRT) (available soon)
272	ADEOS	OCTS	GAC Visible and near infrared	
273			GAC Thermal infrared	
274			RTC Visible and near infrared	
275			RTC Thermal infrared	
276			GAC Ocean Color1	
277			GAC Ocean Color2	
278			GAC Vegetation Index	
279			GAC Sea Surface Temperatur	
280			RTC Ocean Color1	
281			RTC Ocean Color2	
282			RTC Vegetation Index	
283			RTC Sea Surface Temperatur	
284			GAC Ocean Color	
285			GAC Vegetation Index	
286			GAC SeaSurface Temperatur	
287			RTC Ocean Color-CZCS like pigment concentration	

No.	Spacecraft Name	Sensor Name	Spacecraft/sensor Product Name	Note
288			RTC Ocean Color-Chlorophyll-a concentration	
289			RTC Ocean Color-Diffuse attenuation coefficient at 490nm(K490)	
290			RTC Sea Surface Temperture	
291			GAC Ocean Color	
292			GAC Ocean Color-CZCS like pigment concentration	
293			GAC Ocean Color-Chlorophyll-a concentration	
294			GAC Ocean Color-Diffuse attenuation coefficient at 490nm(K490)	
295			GAC Vegetation Index	
296			GAC Sea Surface Temperture	
297		AVNIR	PAN	Order made(*1)
298			MU	Order made(*1)
299	MOS-1	MESSR	MESSR	Order made(*1)
300		VTIR	VTIR	Order made(*1)
301		MSR	MSR	Order made(*1)
302	MOS-1b	MESSR	MESSR	Order made(*1)
303		VTIR	VTIR	Order made(*1)
304		MSR	MSR	Order made(*1)
305	JERS-1	VNIR	VNIR	
306		SWIR	SWIR	
307		SAR	SAR	
308	ERS-1	AMI	AMLimage	Order made(*1)
309	ERS-2	AMI	AMLimage	Order made(*1)
310	ALOS-2	PALSAR-2	Spotlight	Search only
311			Fine Resolution Mode (3m)	Search only
312			Fine Resolution Mode (6m)	Search only
313			Fine Resolution Mode (10m)	Search only
314			Wide Area Observation Mode (350km)	Search only
315			Wide Area Observation Mode (490km)	Search only

(\*1)It can only be used by PI, Col and special agencies that have a collaborative agreement with JAXA

Available products will continue to be expanded



## Appendix 8 Message

Service		Message		Solution
Information		1	The password is expired. For security reason, please change the password.	Please change a password.
		2	Failed to get	
Login		3	Login is completed.	
		4	A login authentication error has occurred.	Please check a user account and a password, and perform again.
		5	The user account or password is incorrect.	Please check a user account and a password, and perform again.
Save Search Condition		6	Failed to get again.saved conditions. Please wait a moment and then try.	Please perform again after waiting a few minutes.
		7	Enter file name	
		8	Saved.	
		9	Select a save location.	
Searching	Physical Quantity	10	Failed to search physical quantity. Please wait a moment and then try again.	Please perform again after waiting a few minutes.
	Spacecrafts /Sensors	11	Failed to find the product type.	Please perform again after waiting a few minutes.
		12	Selected product does not exist. Change the search conditions and then try again.	
	Spacecrafts /Sensors	13	Physical quantity are set.	
	Spacecrafts /Sensors (setting physical quantity)	14	Failed to get physical quantity. Please wait amoment and then try again.	Please perform again after waiting a few minutes.
	Spacecrafts /Sensors (setting processing level)	15	Processing levels are set.	
		16	Failed to get processing level. Please wait a moment and then try again.)	Please perform again after waiting a few minutes.
	Physical Quantity (setting spacecrafts /sensors)	17	Failed to get Spacecrafts/sensors. Please wait a moment and then try again.	Please perform again after waiting a few minutes.
	Select Period	18	Enter a correct start month and date.	Please input start days and months correctly.
		19	Enter a correct end month and date.	Please input end days and months correctly.



Service		Message		Solution
		20	Enter a correct start year for the season specification.	Please input the inaugural year of season specification correctly.
		21	Enter a correct end year for the season specification.	Please input the end year of season specification correctly.
		22	Enter the start date.	Please input a start date.
		23	Enter the end date.	Please input an end date.
		24	Start date is prior to end date.	Start date should be inputted the date before an end date.
		25	End date is later than start date	End date should be inputted the date after a start date.
		26	Start year is prior to end year	Start year should be inputted the date before an end year.
		27	Enter end year.	Please input an end year.
		28	Enter start date in YYYY (ex. 2012)	Enter start date in YYYY (ex. 2013)
		29	End year is later than start year.	End year should be inputted the date after a start year.
		30	Enter the start year.	Please input an start year.
		31	Enter end date in YYYY (ex. 2012)	Enter end date in YYYY (ex. 2013)
	Search Dialog	32	The retrieval is suspended, because results exceed maximum search records 1999.	
		33	[Go to Search result] button is pushed, the search results are displayed up to 1999.	
		34	To display the search result correctly, please squeeze the search criteria and try again.	Please squeeze the search criteria and try again.
		35	The search result is 0. Please change the condition of retrieving it, and retrieve it again.	Please squeeze the search criteria and try again.
		36	Search Products catalog.	
		37	Search of the product catalog ended.	
		38	Failed to search Products catalog. Please wait a moment and then try again.	Please perform again after waiting a few minutes.
	Confirm Details	39	Failed to get details. Please wait a moment and then try again.	Please perform again after waiting a few minutes.
	Save Results	40	Output the search results in CSV format.	
		41	Searching for a file to be saved in KML	
		42	Output the search results in KML format.	

Service		Message		Solution
		43	No data is obtained.	
		44	Failed to acquire a file.	
Order Products		45	These will be deleted from My List. OK?	
		46	Failed to order. Please wait a moment and then try again.	Please perform again after waiting a few minutes.
		47	Maximum data size for one order is XX GB, Maximum number of products is XX items. Cancel the selection of the product from the search results, and reduce the size and the number of products to be ordered. ※XX is different for each user classification.	Please remove selection of search results and reduce the size of the product to order.
		48	Of the ordered products, XX items can be downloaded. ※XX is different for each user classification	
User Registration		49	Enter a correct e-mail address format.	Please input a correct e-mail address format.
		50	E-mail address is up to 128 characters.	Please input an e-mail address up to 128 characters.
		51	The e-mail address does not match.	Please check that the inputted mail address.
		52	Confirmed e-mail address is up to 128 characters.	Please input an e-mail address up to 128 characters.
		53	Specify the purpose of use.	Please input the purpose of use.
		54	Specify a country name.	Please input a country name.
		55	Please use the E-mail address of your company or university. In the case of free E-mail, you may not receive the E-mail correctly.	
		56	Abnormal registration. Please wait a moment and the retry again.	Please perform again after waiting a few minutes.
		57	User registration is completed.	
		58	The user account is already registered, please try another one.	Please change an user account and try again.
	59	The user account is available.		
Change User Property		60	Unexpected error.	Please perform again after waiting a few minutes.
		61	User property change is completed.	
		62	Please enter your institution in less than 64 characters	Please input your institution up to 64 characters.
		63	Unexpected error.	Please perform again after waiting a few minutes.

Service	Message		Solution
Public Key Registration	64	Unexpected error	Please perform again after waiting a few minutes.
	65	Failed to register a public key. Sorry to trouble you, but please register again.	Please perform again after waiting a few minutes.
	66	Public key has been set.	
	67	Unexpected error.	Please perform again after waiting a few minutes.
	68	Please enter your password on the character length of the string 8-128	Please input your password from 8 to 128 characters.
	69	Passwords do not match.	Please input a correct password.
	70	Please enter your name in up to 64 characters.	Please input your name up to 64 characters.
	71	Please enter your department in up to 64 characters.	Please input your department up to 64 characters.
Delete User Account	72	User Account should be including uppercase and lowercase alphabetical characters, numerical characters, and symbols (such as -, _, @, and .).	Please input an user account up to 128 characters, and symbols (such as -, _, @, and .).
	73	User account has been deleted.	
	74	Failed to delete user account. Sorry to trouble you, but please try again.	Please perform again after waiting a few minutes.
Confirm Order Status	75	Please enter your order end date in the format YYYY/MM/DD.	Enter end date in YYYY/MM/DD (ex. 2013/02/28)
	76	Please enter your order start date in the format YYYY/MM/DD.	Enter start date in YYYY/MM/DD (ex. 2013/02/28)
	77	Please enter your order start date in the format YYYY/MM/DD.	Enter start date in YYYY/MM/DD (ex. 2013/02/28)
	78	Please enter your order end date in the format YYYY/MM/DD.	Enter end date in YYYY/MM/DD (ex. 2013/02/28)
	79	Please enter the end date is the date after the start date.	End date should be inputted the date after a start date.
	80	The order number Please enter your 16-degit numeric characters.	Please enter your 16-degit numeric characters.
	81	There is an error to the input of the order number. Please confirm.	Please retry after confirm to correct input.
Download Products	82	An error has occurred in the Search download more information.	Please perform again after waiting a few minutes.
	83	Number has exceed the maximum number or size	Please remove the selections of two or more download, and perform again.
	84	The number or size is 0.	Please choose the product which performs two or more downloads.
	85	Ready to start the download.	

Service	Message		Solution
	86	The download process is in operation.	
	87	The download to extract information.	
	88	Prepare the download folder.	Please perform again after waiting a few minutes.
	89	Failed to prepare downloads.	Please perform again after waiting a few minutes.
	90	Prepare the data file.	
	91	Ready to file now...	
	92	While getting the file is	
	93	There are files that are no authorized.	
	94	Was completed ready for download.	
Re-Order and Cancel	95	The re-order the order of the branch number and order number below.Are you sure?	
	96	The cancel the order of the branch number and order number below. Are you sure?	
	97	Has been successfully canceled.	
	98	The re-order the product you selected. Are you sure?	
	99	Has been successfully re-ordered.	
	100	Cancel the selected product.	
	101	The cancel the product you selected. Are you sure?	
Order made Product	102	There is an uninputted processing parameters.	
	103	Unallowable Combination	
	104	There is an uninputted processing parameters.	
Tile map Search	105	Click and select the region to be searched on the map.	
	106	Over the upper limit to the selected tiles.	Please reduce the selected number of tiles.
	107	The input format is invalid.Please try again.	Please choose again the tile which can be chosen.
	108	The input format is invalid.Please try again.	Please choose again the tile which can be chosen.
	109	Tile numbers should be entered as (h,v),(h,v)...	Please correct the format of a tile number to the form(H,V).
	110	search condition specifies the region of selected tile numbers when tile numbers are selected.	
	111	[Tile] button is shown in the tile product.	

Service	Message		Solution
	112	[Tile] button should be selected when using tile numbers for the tile product search.	
	113	Cannot be used by search in [Select by Physical Quantities]	Please search in [Select by Spacecrafts/sensors]
Tile/Scene Customizing	114	Please enter the amount of shift.	
	115	Please enter the cutout range.	
	116	AT direction as down in the image orientation.	
	117	Images are sorted in ascending order by observed time + in the CT direction as right + in the AT direction as down	
	118	Not a number has been entered.	Please input a numerical value.
	119	Over the upper limit in the CT direction.(the upper limit is set.)	
	120	Over the upper limit in the AT direction.(the upper limit is set.)	
	121	Over the lower cutout limit in the CT direction.(the lower limit is set.)	
	122	Over the lower cutout limit in the AT direction.(the lower limit is set.)	
	123	Shift value in the CT direction is truncated to the step size.	
	124	Shift value in the AT direction is truncated to the step size.	
	125	Cutout value in the CT direction is truncated to the step size.	
	126	Cutout value in the AT direction is truncated to the step size.	
	127	Over the limit of scene numbers in the cutout range.	Please reduce the selected number of scenes.
	128	Over the limit of selected area in the cutout range.	Please reduce a selected scene area.
	129	Over the upper limit in the H direction.(the upper limit is set.)	
	130	Over the upper limit in the V direction.(the upper limit is set.)	
	131	Over the lower cutout limit in the H direction.(the lower limit is set.)	
	132	Over the lower cutout limit in the V direction.(the lower limit is set.)	
	133	Shift value in the H direction is truncated to the step size.	
	134	Shift value in the V direction is truncated to the step size.	
	135	Cutout value in the H direction is truncated to the step size.	
	136	Cutout value in the V direction is truncated to the step size.	
	137	Over the limit of tile numbers in the cutout range.	

Service	Message		Solution
	138	Over the limit of selected area in the cutout range.	
	139	+ in the H direction as East,+ in the V direction as South.	
	140	the Shift/Cutout range you have selected cannot be applied to the products below:	
	141	Shift/Cutout range should be individually selected	
	142	bundle processing failed. Please try again later.	Please perform again after waiting a few minutes.
	143	Type in one-byte alphabet and numbers.	
	144	Type in the value more than lower limit.	Please input a larger value than the minimum.
	145	Type in the value less than upper limit.	Please input a value smaller than the maximum.
	146	Type in the value less than maximum digits.	Please input by a small digit number from the maximum digit number.
Subbrowse	147	To see other Browsing images <a href="#">img01</a> <a href="#">img02</a> ...	Click a link and display a sub browse.

## Appendix 9 Glossary

Terminology used by G-Portal is as shown in Appendix Table1.

**Appendix Table9-1 List of Terminology and Abbreviations**

No.	Name	Explanation
1	Order	Order products that a user wants to download or customizing of products online. Note that no cost is incurred for orders submitted through G-Portal.
2	Guest user	Users who have not yet completed registration.
3	Direct download	Download products directly via SFTP.
4	Product	Information obtained from earth observation spacecrafts/sensors that have been processed by JAXA to benefit society.
5	Maneuver information	Information used for correcting the position or orbit of spacecraft (planned/actual).
6	Observation region	The range of observation obtained via the movement of spacecraft or sensor scanning.
7	Orbit information	Spacecraft orbit elements, maneuver information and other relevant information.
8	Missing information	Information when observation failed.
9	Public key	The key used for SFTP encryption. Users must generate a public key in advance and register it with G-Portal.
10	Near real-time product	Products that are delivered a short time after observation. The products are created based on the forecast orbit at that time.
11	Registered user	Users who have completed registration.
12	Standard product	Products with data verified for accuracy.
13	Quality information	Information outlining the level of quality of a product.
14	Physical quantity	In G-Portal, this refers to earth physical quantity observed by earth observation spacecraft.
15	2Line orbit elements	Parameters that express the orbit of spacecraft. Also refers to TLE and 3Line orbit elements.
16	CoI	Researcher collaborating with PI.
17	COMB	Combined products such as combined, PR and TMI.
18	DPR	Dual-frequency Precipitation Radar
19	GMI	GPM Microwave Imager
20	GPM	Global Precipitation Measurement
21	KaPR	Ka-band (35.5 GHz) Precipitation Radar
22	KuPR	Ku-band (13.6 GHz) Precipitation Radar
23	PI	Principle Investigator. Researcher collaborating with JAXA.
24	PR	Precipitation Radar

No.	Name	Explanation
25	SFTP	SSH File Transfer Protocol. Capable of transferring files more safely than ordinary FTP.
26	TMI	TRMM Microwave Imager
27	TRMM	Tropical Rainfall Measuring Mission
28	VIRS	Visible and Infrared Scanner
29	Tile Map	The map showing the map the plane in the state where it divided by the shape of a lattice in all directions.
30	Processing Parameters	Processing information specified when placing an order to EOIS/ISS.
31	Subbrowse	Browse data other than what is registered as a browse about the product with two or more browse.
32	Products that can be downloaded immediately	It can be downloaded immediately after an order is submitted online. The products will be deleted from G-Portal after a specified period for each product category.
33	Products that can be downloaded later	It needs some preparation time preparation before downloading them. The product will be deleted from G-Portal after the download deadline has expired.
34	Processed products	It is requested to customize. The product will be deleted from the system after the download deadline has expired.
35	Ordered made products	It is requested to EOIS by processing parameters. Ordered made products can only be used by PI, CoI and special agencies that have a collaborative agreement with JAXA, and are only delivered via SFTP. The products will be deleted from G-Portal after a specified period for each product category.



## Appendix 10 Setting Processing Parameters

Processing parameters can be requested before submitting an order. Processing parameters vary with each type of product.

## Appendix 10-1 Request processing parameters for each product

1. Select the item you would like to request processing.

The screenshot shows a table with the following columns: Item No., Name, Status, and Date. The table contains 10 rows of data. A red box highlights the 'Delete' button for item 2.

Item No.	Name	Status	Date
1	MESSR	Not Classified	1991/04/27 1991/04/27 01:26:36 01:26:43
2	MESSR	Not Classified	1991/04/27 1991/04/27 01:26:48 01:26:55
3	MESSR	Not Classified	1991/04/27 1991/04/27 01:27:01 01:27:08
4	MESSR	Not Classified	1991/04/27 1991/04/27 01:27:13 01:27:20
5	MESSR	Not Classified	1991/04/27 1991/04/27 01:27:26 01:27:33
6	MESSR	Not Classified	1991/04/27 1991/04/27 01:27:38 01:27:45
7	MESSR	Not Classified	1991/04/27 1991/04/27 01:27:51 01:27:58
8	MESSR	Not Classified	1991/04/27 1991/04/27 01:28:01 01:28:10
9	MESSR	Not Classified	1991/04/27 1991/04/27 01:28:16 01:28:23
10	MESSR	Not Classified	1991/04/27 1991/04/27 01:28:16 01:28:23

- 1) For Ordered made products, click the “Request Processing” button from the product list on the My List screen. A dialog box for configuring the processing parameters will be displayed. Processing parameters vary with each type of product.

2. Enter the processing parameters.

Processing Level: C0142

GeoCoded Flag: @NONE@GeoReference@GeoCoded

GeoCoded Direction: @NONE@Map North@True North

Map Projection: @NONE@LCCMER@UTM@SOM@PS

Resampling: @NONE@CC@NN@BL

Earth Ellipsoid: @Tokyo Bessel@CRS80

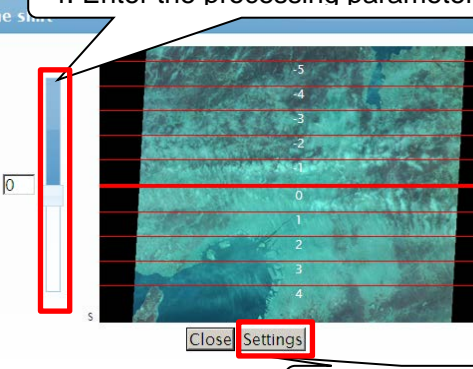
Scene Shift: 0

3. Click

Close Settings

- 2) Enter the processing parameters.
- 3) Click the "Settings" button to request by processing parameters for the product.

4. Enter the processing parameters.



5. Click "Settings".

※ When scene shift is included in the processing parameter, the following screen will be displayed if it clicks the button of "scene shift."

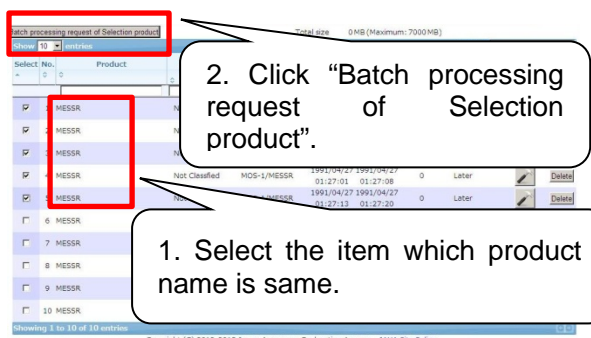
4) Operate a scroll bar and setting a scene shift. As for a scene shift, the line on a picture serves as a standard. Please allow the line on a picture not to change, even if it operates a bar

5) Click the “Settings” button to set the processing parameter of a scene shift.

You can check the processing parameters at STEP6 "To Order", or order history by clicking on "Order, Customize" icon.

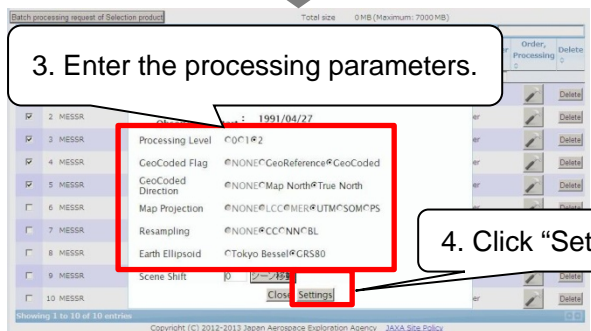
## Appendix 10-2 Request processing parameters for multiple products

Batch processing can be requested for products with the same product name (with the same processing detail configuration items).



1) Click multiple products with the same name and then the "Specify batch processing of multiple products" button at the top become clickable.

2) Click the "Batch processing request of Selection product" button. A dialog box for configuring the processing parameters will be displayed.



3) Enter the processing parameters.

4) Click the "Settings" button to configure batch processing for the selected products.

## Revision History

date	Corrections		Page	Revisions
2014/6/12	text	–	1	We added the sentence below "Please refer to the Term of Use for further information of usage. And also please"
	Table 1.2 1 User Types	Registered User	2	We added the sentence below. "and near real-time products"
	Table 1.3 1 Product Services for Each Type of User	Download products(SFTP)	3	We changed the symbol "(*)" to "(*2)".
	text	–	3	We deleted the sentence below because the user of Near-real products was changed to "resistered users". "*2 In addition to the products registered users can download, Near-real products are also available."
	whole	–	13	We revised the sentence because the user of Near-real products was changed to "resistered users".
	whole	–	13	We corrected "Order made products" to "Ordered made products".
	Table	Near real-time Product	13	We deleted the sentence below because the user of Near-real products was changed to "resistered users". "Near real-time products can only be provided by PI, CoI and specified agencies that have a collaborative agreement with JAXA"
	whole	–	15	We corrected "Order made products" to "Ordered made products".
	window image	–	24–27	We updated the window image for the window layout change "to Home (Top) page and filter search conditions to search implementation."
	The link operation method from Home (Top) page to a Product Selection Window	–	28	We added the operation which filter search spacecrafts/sensors from Home (Top) page and it links to a product selection window.
	window image	–	28–29	We updated the window image for the window layout change "to Home (Top) page and filter search conditions to search implementation."
	window image	–	30	We updated the window image for the window layout change "to Home (Top) page and filter search conditions to search implementation."
	window image	–	31	We updated the window image for a search-results window layout change.
	window image	–	37	We updated the window image for a search-results window layout change.
	window image	–	40	We updated the window image for the window layout change "from filter search conditions to order."
	window image	–	41	We updated the window image for two or more file download window layout change.
	whole	–	43–44	We corrected "Order made products" to "Ordered made products".
	window image	–	49	We updated the window image for Home (Top) page layout change.
	window image	–	50	We updated the window image for Home (Top) page layout change.
	window image	–	54	We updated the window image for Home (Top) page layout change.

date	Corrections		Page	Revisions
2014/6/12	Windows XP Support	—	56	Since WindowsXP support went out, we deleted WindowsXP from the recommend environment. We updated the version of IE, FF of Windows7.
	window image	—	57	We updated the window image with the addition of a name of a place search scroll function.
	Place search	—	58	We added a window image and explanation with the addition of a name of a place search scroll function.
	window image	—	59,60	We updated the window image with rationalization of explanation of area definition.
	clear text	—	60	We performed correspondence which clears drawing of the selected area in the timing of an input clearance, and deleted limitations.
	window image	—	61,62	We updated the window image with rationalization of explanation of area definition.
	window image	—	62,63	We updated the window image with rationalization of explanation of area definition.
	window image、explanation	—	64,65	With the addition of the function specified for two or more terms, we added explanation and updated the window image.
	window image、explanation	—	66,67	With the addition of the function which filter spacecrafts/sensors by a period and region definition, we added explanation and updated the window image.
	Appendix 4-5、Appendix 4-6	—	68	We added description with the addition of the filtering function of a search condition.
	whole	—	72	We added a postscript about the operation which filter spacecrafts/sensors from the Home (Top) page.
	whole	—	73	We added a postscript about the operation which filter spacecraft /sensor on Period and Region Selection Window.
	whole	—	81-91	We updated the list of the spacecraft/sensor.
	free mail address message	—	94	We added the message about free e-mail address.
2015/2/24	Appendix Table9-1 List of Terminology and Abbreviations	whole	100	We corrected "Order made products" to "Ordered made products".
	Appendix 10-1 Request processing parameters for each product	1)	101	We corrected "Order made products" to "Ordered made products".
	Table	—	3	We updated the error of the chapter number corresponding to the service.
	Windows	—	17-24	We updated for latest WinSCP(5.5.6).
2015/10/14	text	—	59	We update explanation for a difference between figure and explanation.
	image,text	—	33-34	We updated image and text due to new paging buttons.
2015/10/14	whole		92	We updated the list of the ALOS-2.
2015/10/23	No.305~307		92	We removed the remarks column of the JERS-1.